Iowa State University
Construction Engineering
Fifty Years of Excellence

Iowa Department of Transportation
Library
800 Lincoln Way
Ames, Iowa 50010

LD2547
I65
2010

DATE DUE

Iowa Department of Transportation
Library
800 Lincoln Way
Ames, Iowa 50010

DEMCO

Iowa State University
Construction Engineering
Fifty Years of Excellence

50th
1960 - 2010
CONSTRUCTION
ENGINEERING
IOWA STATE UNIVERSITY

Iowa State University Parks Library/Special Collections Department supplied most of the photographs for this publication.

Iowa State University does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, gender, marital status, disability, or veteran status. Anyone with inquiries concerning this may contact ISU's Director of Affirmative Action, 318 Beardshear Hall, (515) 294-7612.

© 2010 Iowa State University, Department of Civil, Construction and Environmental Engineering. All rights reserved.

Published by Iowa State University's Department of Civil, Construction and Environmental Engineering.

Written by Present and Past Faculty, Staff and Friends of the Construction Engineering Program at Iowa State University.

Editor: Minna Khounlo-Sithep, Communications Specialist, Department of Civil, Construction and Environmental Engineering

Printed by Thomson-Shore, Inc., Dexter, Michigan.

Iowa State University
Department of Civil, Construction and Environmental Engineering
394 Town Engineering
Ames, IA 50011
Phone: (515) 294-2140
Website: www.ccee.iastate.edu

First Edition, 2010

ISBN 978-0-578-06291-4

TABLE OF CONTENTS

CHAPTER ONE: The Construction Engineering Program - Past, Present And Future . . . 8
- Past . . . 9
- Present . . . 18
- Future . . . 22

CHAPTER TWO: History of ConE Faculty and Staff – Listing . . . 25
- ConE Faculty and Staff Honors and Awards – Listing . . . 29

CHAPTER THREE: Leadership Perspectives: In Their Own Words . . . 32
- Tom Jellinger . . . 33
- John Russo . . . 37
- Jerry Chase . . . 38
- Jim Rowings . . . 40
- Mark Federle . . . 41
- Charles Jahren . . . 42
- Ed Jaselskis . . . 44

CHAPTER FOUR: History of the ConE Advisory Council . . . 46

CHAPTER FIVE: History of the Student Organizations and Awards . . . 51
- AGC . . . 52
- DBIA . . . 54
- MCA . . . 55
- NAWIC . . . 56
- NAHB . . . 57
- NECA . . . 58
- Sigma Lambda Chi . . . 59
- AGC Student Chapter Awards . . . 60
- Klinger Awards . . . 61
- ASC Student Competition Awards . . . 62

CHAPTER SIX: History of ConE Research . . . 63
- Faculty Research . . . 64
- Student Research . . . 68

CHAPTER SEVEN: ConE Hall of Fame . . . 75
- Tom Jellinger . . . 78
- Ken Lewis . . . 79
- W.A. Klinger . . . 80

CHAPTER EIGHT: Tom & Ro Jellinger Laboratory and Town Engineering . . . 81
- Tom & Ro Jellinger Laboratory . . . 82
- Town Engineering . . . 84

CHAPTER NINE: The ConE *Erector Set* . . . 85
- The *Erector Set* Was Born . . . 86
- Reprint of the First Edition 1969 *Erector Set* . . . 88
- Class Lists - Bachelor's degree graduates . . . 100
- Class Lists - Master's and Doctoral degree graduates . . . 108
- Alumni Index By Last Name . . . 109

Acknowledgements . . . 127

This book is dedicated to all the past, present and future students of the ISU Construction Engineering Program.

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Dear ConE Friends,

The Construction Engineering program at Iowa State University has a strong foundation and a rich history.

The first Professor-in-Charge, Tom Jellinger, along with his wife, Ro, established many fine traditions that continue today: the *Erector Set*, senior dinner, alumni industry advisory council, and a supportive, family environment. And over the years others have been added, including: the spring banquet, ConE mug ceremony, student competitions, ConE program fundraising, the internship program, and greater student leadership learning opportunities.

Construction Engineering continues to grow and thrive in an unquestionably supportive environment. It is no wonder that our program is ranked as one of the best in the country! We are by far the largest construction engineering program in the nation, attracting students from all over the world. The key to our success reflects several winning factors. Of course, we certainly have an extremely loyal group of alumni who have generously given back to the program both in terms of their time and financial support. In addition, we are blessed with hardworking students who have a real passion for construction, dedicated faculty who bring real-world experience to the classroom, and supportive staff who help all of us achieve our goals.

The ConE 50th anniversary is an important milestone. It is a time to reflect on a long, proud history and to recognize those who have had a hand in building the successful program that we all enjoy today. It is also a time to look ahead. While we certainly intend to continue the traditions that make ConE the unique program that it is, we will also adapt to meet the challenges that our ConE students will face as they head out to future jobsites. Our successes today are ones that Professor Jellinger could not have imagined when he began this program in 1960.

This edition of the *Erector Set* is a special Golden Anniversary Edition. It includes a wealth of information on the history of the program, faculty, staff and students. The evolution of the ConE program is visually depicted in the numerous photographs throughout the book. As a special bonus, a CD with copies of all prior *Erector Sets* is included.

Overall, we trust that this book reflects the true excellence of our Construction Engineering program. We will all look forward to this program's continued success over the next half-century.

Jonathan Wickert

James Alleman

Edward Jaselskis

Sincerely,

Jonathan Wickert, Dean of Engineering

James Alleman, Chair, CCEE Department

Edward Jaselskis, Professor-in-Charge

CONGRATULATIONS FROM THE PRESIDENT

Gregory Geoffroy, President, Iowa State University

President Geoffroy

To the Students, Faculty, Staff, Alumni and Friends of Iowa State University's Construction Engineering Program:

On behalf of the entire Iowa State University family, I am pleased to extend congratulations to Iowa State's Construction Engineering program on the occasion of its 50th anniversary!

Iowa State's "ConE" program has a tremendous history of academic excellence, leadership and significant contributions to the construction industry, through the outstanding work of our faculty and staff, and especially through the success of our graduates. These graduates have played a major role in shaping this campus, the state of Iowa, this nation and our world by building the backbone infrastructure upon which all development and progress depends. We are deeply grateful for all that our faculty, staff, students and alumni have done to bring progress, prosperity, and improved living conditions to people in all parts of the world, all while protecting and preserving our fragile natural environment.

We are also very grateful to the many ConE alumni of this great department, who work in partnership with our other friends in the construction industry and who provide very generous and necessary financial support for our academic efforts. Your investment in student scholarships notably ensures that the industry will remain strong by helping gifted young people become the industry leaders of tomorrow. And your support of faculty positions, research projects, and facilities, highlighted by your department's recently renovated Jellinger Lab, has helped Iowa State to improve equipment and practices as we continue advancements that will make the construction industry safer and more efficient.

As we reflect back on the 50 years of success of the ConE program, we acknowledge and thank the many individuals and organizations whose vision, leadership and dedication built this world-class department. Foremost among this group is the Master Builders of Iowa, which provided much of the inspiration and resources to get this program started 50 years ago. This is truly one of the best examples of a university-industry partnership anywhere, and it continues as strong as ever today.

Again, congratulations for 50 years of outstanding service! We wish you the very best in your continued pursuit of excellence in service to the construction industry for the next 50 years and beyond!

Sincerely,

Gregory L. Geoffroy
President

CONGRATULATIONS FROM THE ADVISORY COUNCIL

Larry Hopp, Construction Engineering Advisory Council Chair

Dear Colleagues and Friends,

The quality of the engineers graduating with a Construction Engineering degree from Iowa State University stands as a living testimony to the world-class ConE program at ISU.

A passion for the fundamentals of construction provided the spark for the program's birth. We have watched with pride as that fledgling program has evolved through the years to where it now stands as arguably one of our nation's premier construction engineering programs.

This Anniversary Edition is intended to commemorate the first 50 years of that remarkable story and to catch a glimpse of what we can expect in the next 50 years. It traces the growth of the program, its ever evolving curriculum, and the professors and instructors that have carried out that mission. Student organizations have obviously contributed significantly to the well-rounded educational program and are highlighted herein as well.

We have also attempted to spotlight key achievements of students, faculty and alumni over the years. The Construction Engineering program has truly made a difference at Iowa State University, in our industry, and throughout the world.

Your ConE Industry Advisory Council is proud to have played a small part in the development of this commemorative edition and in the 50th Anniversary Celebration events.

We look forward to the ongoing success of the program, which continues to provide us all with the quality construction engineers who will continue to form the foundation for each of our construction companies.

We trust that you will enjoy the Celebration and this Keepsake Edition.

Sincerely,

Larry Hopp

Larry Hopp
Construction Engineering Advisory Council Chair

CHAPTER ONE:

The Construction Engineering Program - Past, Present And Future

The Construction Engineering Program - PAST

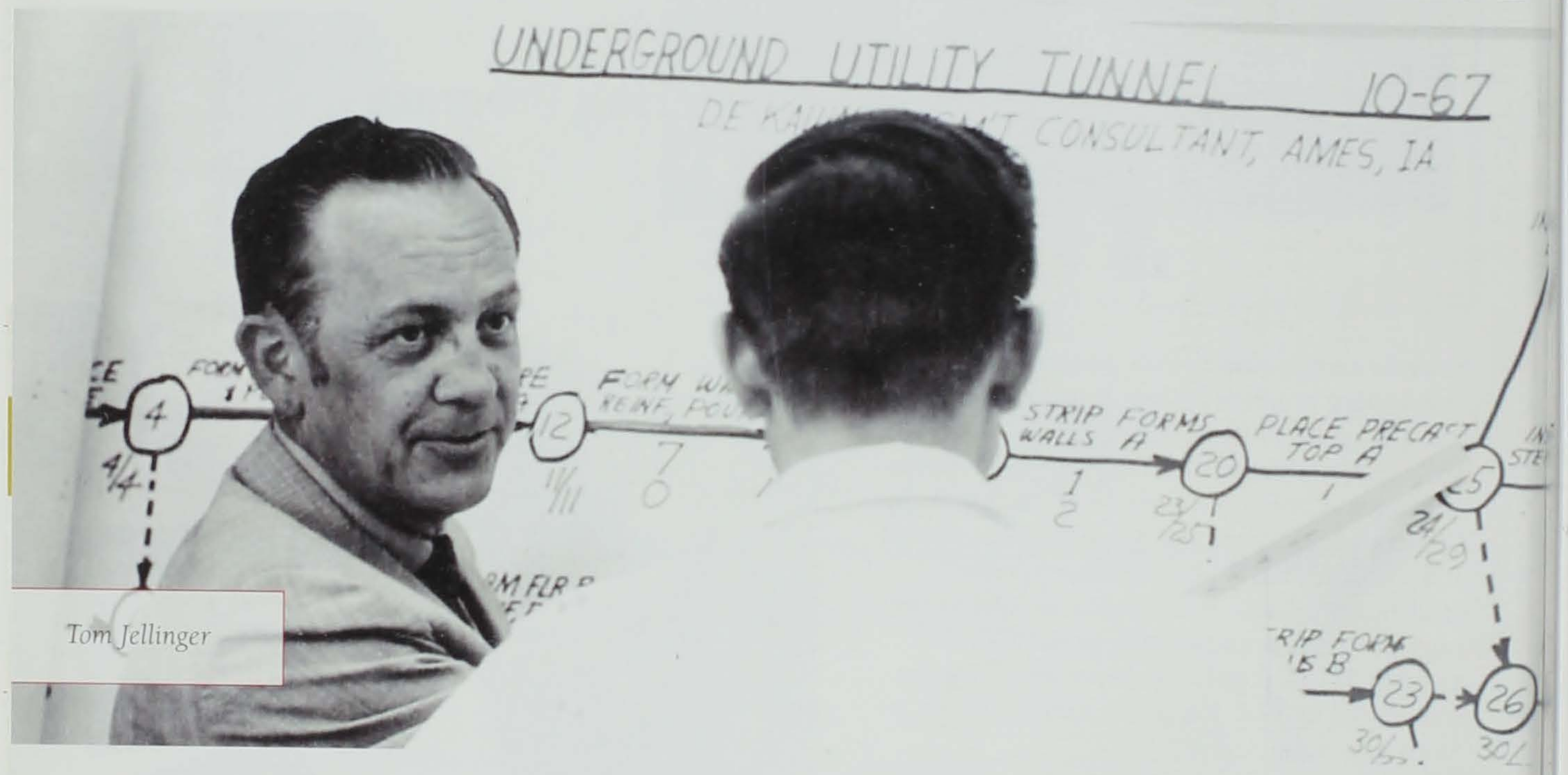
Since its establishment, the Construction Engineering program at Iowa State University (ISU) has grown in size, scope, and prestige. With nearly 400 students, the program, known to many as ConE, now ranks as the largest Construction Engineering program in the nation; and the Gourman Report, which evaluates academic programs, has recognized ConE as the top Construction Engineering program in the country. This successful, indispensable program was started by W.A. Klinger, a veteran builder in Sioux City, Iowa.

Mr. Klinger was a civil engineering graduate from the University of Wisconsin, where he earned Tau Beta Pi honors. Throughout his days in Iowa, he was active as a member of organizations such as the Sioux City Chamber of Commerce and the National Chamber, serving as a board member from 1942 to 1951. He served two terms, 1936 and 1937, as president of the National Associated General Contractors (AGC).

Mr. Klinger recognized the potential for having a Construction Engineering program. As a member of Master Builders of Iowa (MBI), Mr. Klinger sought the help of other MBI members to make this dream a reality. In 1950, MBI formally designated an Education Committee, with Mr. Klinger as chair. The committee urged Iowa State to initiate a curriculum emphasizing practical knowledge in place of theoretical courses. The committee presented the idea of teaching courses in construction organization, quantity surveys, cost keeping and estimating, labor relations, money and banking, mortgages and construction financing, construction materials, and the study of relations between the owner, architect-engineer, and the contractor. Unfortunately, funding for this program could not be provided solely by the University. MBI originally contracted to pay the University a sum of $15,000 per year for five years. As time went on, this amount was increased and extended. MBI gave a total of $135,000 to Iowa State University for the funding of Construction Engineering within a time period of nine years. By September 1960, Iowa State University officially offered Construction Engineering as a program with Thomas C. Jellinger as head of the program.

The Beginning of the Building Program

Professor Jellinger joined the ISU faculty as an assistant professor of architecture and architectural engineering. He was a registered engineer in the state of Ohio and was one of 50 candidates to be considered for the position as head of the program. When MBI representatives spoke with Mr. Jellinger about the position, they instantly knew he was the person for the job. On September 1, 1978, Professor Jellinger relinquished his position as Professor-in-Charge, but continued to serve on the faculty until June 1, 1981. Professor Jellinger's original concept



Tom Jellinger

for teaching Construction Engineering was based on opinions and ideas from people working within the industry. The concept has brought great success to the program, and opinions and inputs from industry members are still greatly valued today.

The first course that Professor Jellinger taught on campus was an existing course on Materials and Methods of Construction. Each quarter, even each day in the beginning, course content would be revised to include necessary topics. With the curriculum put forth by W.A. Klinger serving as a guideline, the program was very fluid and was adapted to fit what the industry needed. This tradition of continuous improvement carries over to today. Along with other courses, Professor Jellinger developed a course in critical path method scheduling, and after about a year and a half, a rough curriculum was taking shape. In 1963, the first four graduates received Bachelor of Science degrees in Engineering Operations.

College Location Struggle

As the program was being developed, some of the faculty in the College of Engineering began objecting to having Construction Engineering housed in the College of Engineering. Some felt it would fit better in a technical institute where associate degrees could be awarded. Others felt the program was more of a business curriculum and that the program would be better suited alongside other business programs. It is because of the efforts of George Town, the dean of the College of Engineering, and Professor Jellinger, that the program remained in the College of Engineering. The program title changed from Engineering Operations to Building Construction to Construction Engineering. The building construction program was located in Engineering Operations in both the 1963-65 and 1965-67 ISU general catalogs. In the 1967-69 and 1969-71 catalogs, the curriculum of building construction was no longer under engineering operations. The name changed from Building Construction to Construction Engineering in 1970 and can be first found in the 1971-73 general catalog.

The Start of New Emphases

The heavy/highway emphasis was added at the initial request of ConE student Cork Peterson. The two emphases of building and heavy/highway can first be found in the 1971-73 general catalog. The emphasis continues to this day.

The mechanical emphasis can first be found in the 1973-75 general catalog with a note saying, "consult the Professor-in-Charge." In the next catalog, an actual description of courses can be found. In the 1999-2001 general catalog, the emphasis was split into mechanical or electrical. Today, a student can pursue a mechanical or electrical emphasis.

The Graduate Program

The graduate program can first be found in the 1985-87 general catalog. The first graduate student received a Master of Science degree in 1985, and the first doctoral student completed study in 1995. As with the undergraduate curriculum, the graduate program continues to evolve to reflect new technology and industry feedback.

From Program to Curriculum

What began as two courses in architecture on construction-related coursework has become an entire fully-accredited curriculum with four possible emphases. In the 1942-43 general catalog, the courses offered were Architecture (Arch) 238, Elements of Construction and Arch 496, Estimating and Building Supervision. In the 1959-61 catalog, three construction related courses were offered. These were Arch 441, Methods and Materials of Construction; Arch 442, Estimating and Supervision; and Arch 443, Specifications. In the 1967-69 catalog, nine courses were offered on construction topics.

Accreditation

The curriculum first went up for review in 1971, but it was not accredited at that time. The curriculum was revised to include differential equations and more social science and humanities. In the fall of 1976, the construction engineering curriculum was awarded accreditation by the Engineer's Council for Professional Development (ECPD). The ECPD was renamed in 1980 as the Accreditation Board for Engineering and Technology (ABET).

Construction Engineering Tradition

Alumni remember Professor Jellinger for building the Construction Engineering program into a close-knit academic community, creating an atmosphere in which students and faculty worked together closely. As head of the program, Professor Jellinger started hosting senior dinners at his home with his wife, Ro. At these dinners, graduating seniors came together to socialize with him. This is a tradition that continues today.

Another tradition is the ever-evolving curriculum. Students know that instructors will adapt the course within the objectives to best suit the construction climate at the time. To this day, current industry-relevant topics, such as sustainable construction and multiple delivery methods, are covered in the classroom.

Construction Engineering at Iowa State University is truly in a category of its own. It is sophisticated, advanced, and dedicated to its students. Students leave the Construction Engineering program with not just knowledge of the Construction Industry, but with life experiences and friendships that will last a lifetime.

Works Cited

"Background on Tom Jellinger." Paper. n.d.

Jellinger, Tom. Program History According to Tom Jellinger

Klinger, William A. "Construction Education: Industry Leader Proposes 5-Year College Curriculum." The Constructor January 1956.

Ward, Ira. "History of Construction Engineering, Iowa State University." Paper. n.d.

Section from a 1971 Annual Report about the ConE program.

CONSTRUCTION ENGINEERING

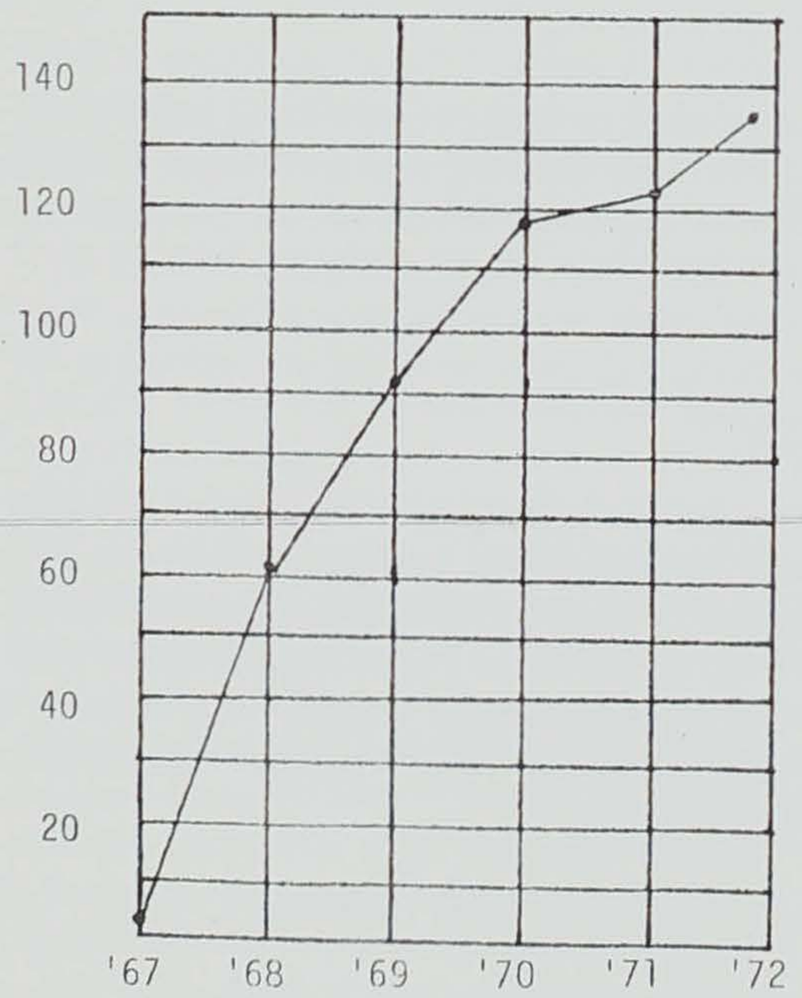
College: Engineering
Department: Civil Engineering
Subdivision: Construction Engineering

I. Purpose and Goals of Program

To provide an educational program to prepare persons for management and future executive positions in the construction industry. Emphases in building construction, heavy construction, and mechanical construction are presently established within the curriculum. An emphasis in electrical construction to complete the offerings is now being discussed.

The Construction Engineering curriculum differs from the more traditional programs in engineering in that it includes an emphasis in business and management. Both educational and industry sources have been used in formulating the curriculum and it has achieved a high degree of acceptance from the employers in the construction industry.

II. Enrollment Trends



Statistics for the graph of enrollment were secured from Engineering Classification. The figure of three for 1967 is suspect, other records indicate this should be 40. Student enrollment has shown a steady increase and it is expected that this trend will continue for some time since the demand for graduates shows signs of increasing,

Enrollment for the fall of 1971 showed an increase in new students as compared with the fall of 1970. This was contrary to trends in many other areas of engineering. Starting salaries for graduates has been maintaining a relatively high level and the number of job offers for new graduates is indicating an increase.

III. Problem Areas

The major problem area which currently exist for the Construction Engineering curriculum is one of serious understaffing. Our current student-faculty ratio is excessive, presently being in excess of 40:1. This precludes almost all activities except day to day teaching responsibility. During the recent unsuccessful attempt to secure accreditation, one of the criticisms mentioned by ECPD was the lack of faculty involvement in research. If any research is to be undertaken by the faculty, additional staff members must be authorized and secured. All other problems pertaining to the Construction Engineering curriculum become secondary when compared with the need for additional staff.

IV. Possible Ways of Saving Money

With the curriculum presently in a growth stage and being seriously understaffed, there does not seem to be any practical ways to cut expenditure at the present time.

Section from a 1971 Annual Report speculating on the future of construction engineering.

The Iowa Construction Industry of the Future ???

1. The industry will employ an increasing amount of high technology in its operations. The industry will be a second tier consumer of technology. Major change areas will include the design-construction interface, project controls technology, and automation and semi-automation of construction operations.

2. The industry will become further stratified with an increase in the number of large volume firms ($50 mm+) and small volume firms ($1 mm or less) and a decrease in the number of medium-sized firms.

3. The market growth for construction services within Iowa will be constant but not dramatic. Opportunity areas in the public sector include rebuilding of the primary road system between medium-sized cities, rehabilitation of the interstate road system, utility construction, environmental projects, reconstruction of public works facilities, and limited new construction of public buildings. In the private sector, there is a significant opportunity for a growth in industrial construction projects especially as related to food processing and agri-products processing. Additionally, opportunities exist for increases in elderly housing, light industrial, and warehousing. Housing growth will increase at a modest rate along with office space expansion.

4. The projects will be far more complex both in terms of design and construction and with regard to execution. The time from conception to market demand is increasingly short, and therefore, time pressures will be felt on all projects. The mechanical and electrical systems will be far more complex. This will lead to several tiers of specialists and vendor representatives which will need to be coordinated under the time constraints. New materials and systems will be developed and specified and at an increasing rate. The trend will be toward lightweight and prefabricated modular building elements.

5. Craftsman skill levels will stratify. There will be a need for highly skilled (technologically) craftsmen to operate and maintain new equipment and supervise & lead assembly operations. Very low skilled labor will be used to assemble and install the newer systems. A very few craftsmen-artisans will be utilized in the field (most of this work will occur in specialty shops).

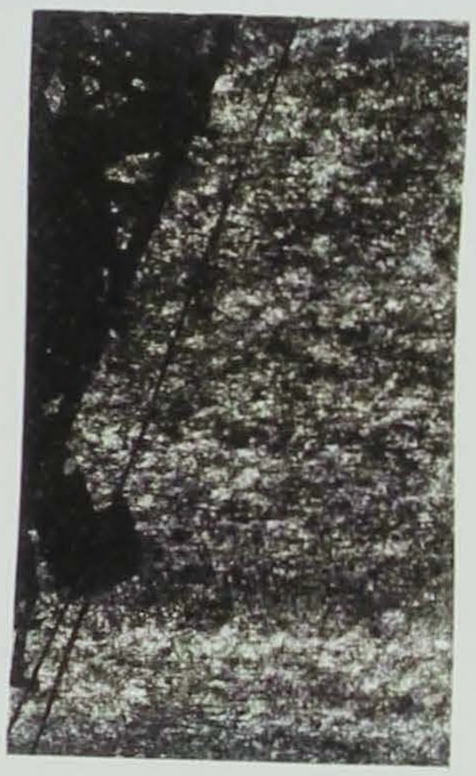
6. An increasing number of the superintendents will have four year college educations. A typical career path will include stints as a crew-foreman, assistant superintendent, estimator, project engineer, and project manager. Construction firms will spend increasing amounts on focused training for these people to keep them informed of changes in technology. Graduate education with a balance between management, business, and technology (engineering) will enhance career progression beyond project manager.

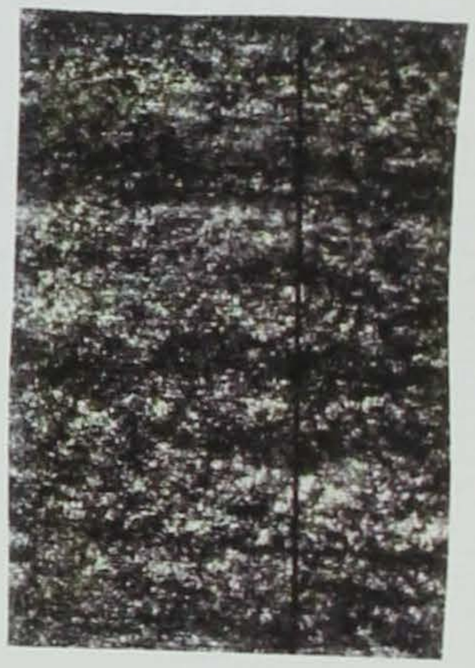
7. The large scale private sector will move away from competitive bidding and will develop partnering arrangements with the larger construction firms. The construction industry will be active in the scoping phase and design development for projects and programs. Some experimentation with this is possible in the public sector. Privatization of public facilities is the most likely mechanism which will be employed.

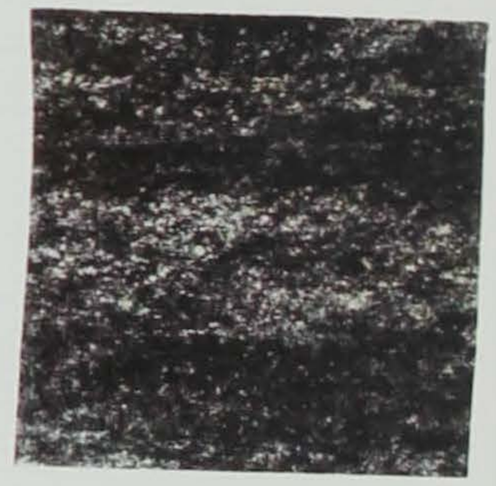
8. Both in the private and public sectors, the construction industry will be come involved in both the maintenance and operation of facilities and projects. These additional responsibilities will require broader training for individuals, but will afford the industry some stability in work force and an opportunity to maintain or expand its capital base through down cycles in construction.

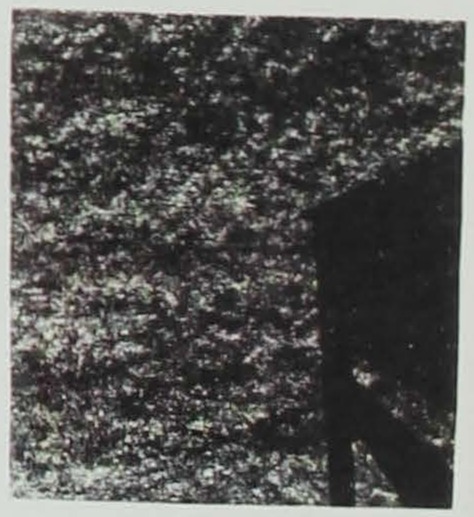
CONSTRUCTION EDUCATION at IOWA STATE UNIVERSITY

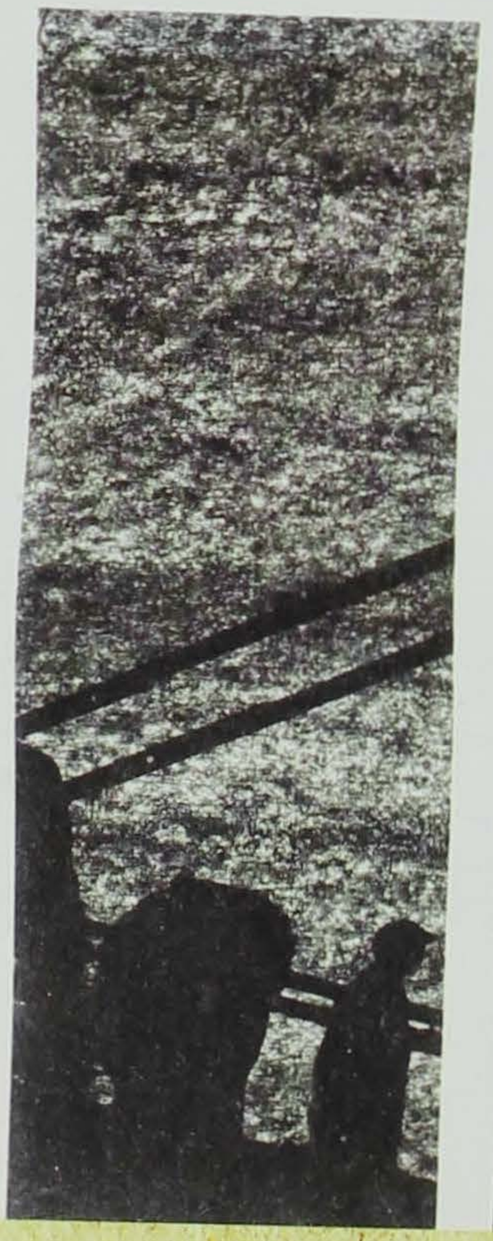
AMES, IOWA











Past marketing for the construction program.

CONSTRUCTION TECHNOLOGY

Construction is a real team effort. Engineers and architects coordinate the effort. They draw the plans. Often they call upon the scientist for new ideas, new materials, new sources of power. They call upon the businessman for raw materials and components that go into the structure. And they ask the contractor to assemble the skilled craftsmen and the equipment to turn plans and materials into a completed project.

But there's another important member of the team, the technician. He's not a professional man like the engineer and architect, but he understands their work and can perform part of it under their direction. Neither is he a craftsman, although he may have considerable ability in working with his hands.

His work is semi-professional in nature. He performs it largely on his own initiative and with only general guidance. He stands midway between the engineer and the craftsman.

Typical jobs which are filled by technicians are those of estimator, engineering aide, inspector, instrument man, construction materials salesman or routine designer. He may advance into responsible positions in middle management. In some cases the technician might become a construction superintendent or a contractor.

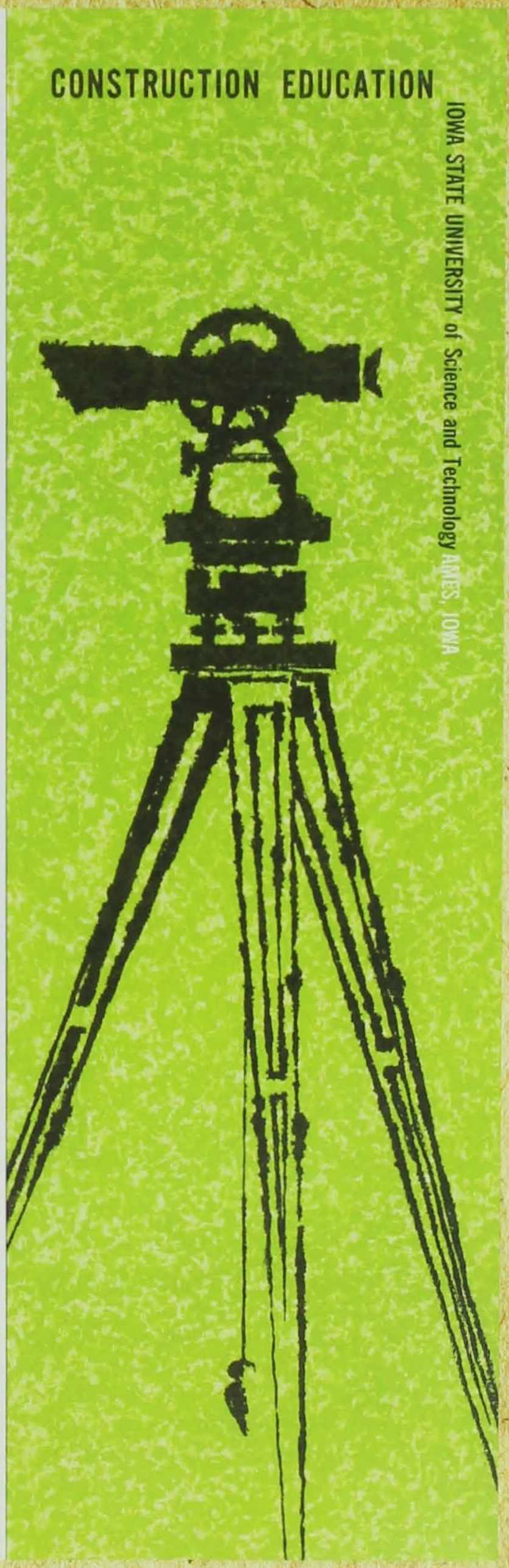
Probably much of his time would be spent outdoors, on such jobs as the construction of buildings, highways, airports, utilities, dredging operations or earth- moving projects.

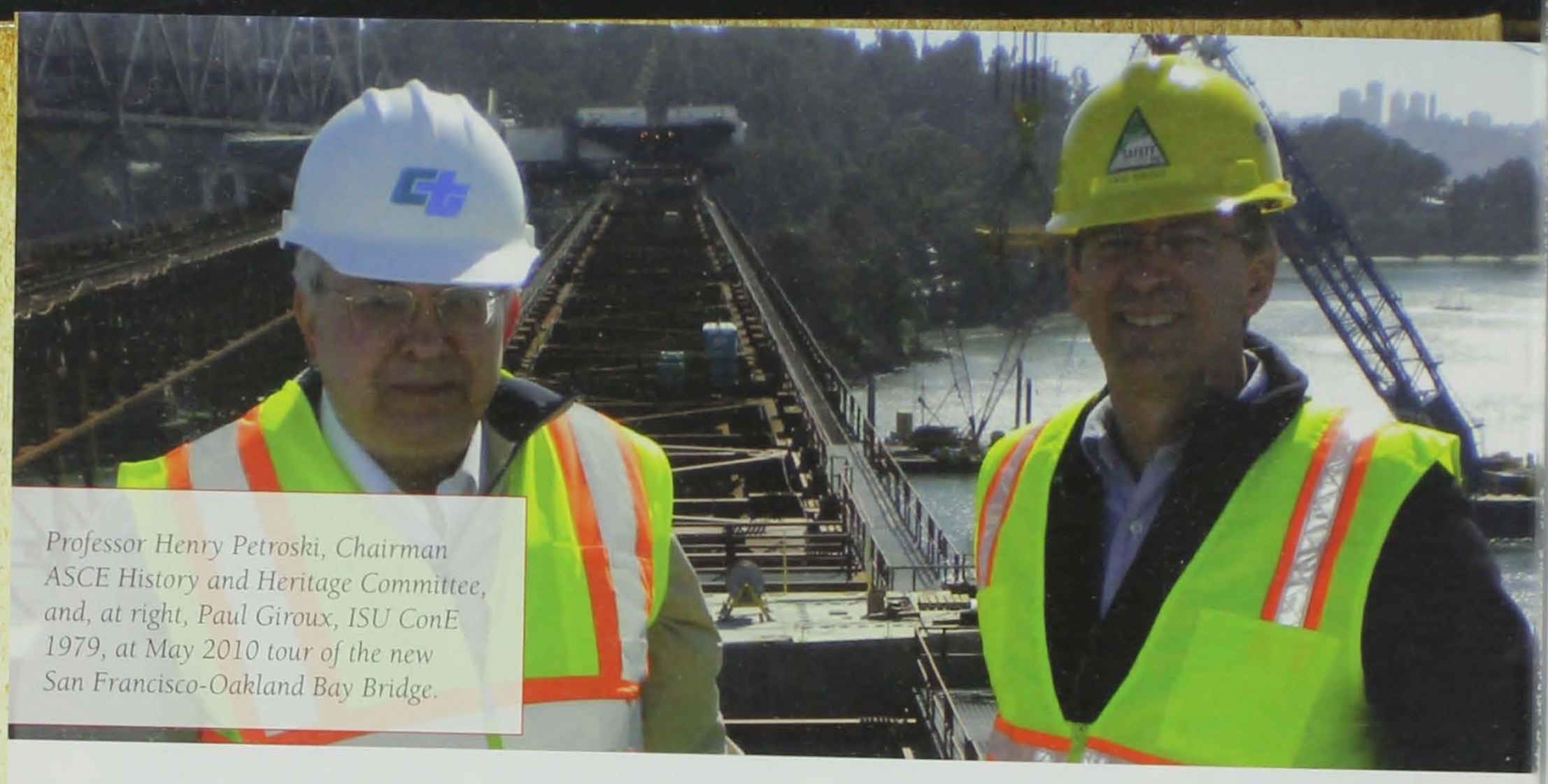
Iowa State University has incorporated a Technical Institute into its College of Engineering. Here it offers programs for the training of technicians, including a program in construction technology. The program is two years in length, and those who complete it receive a certificate as an Associate in Applied Science.

Courses in construction technology are different from those in engineering. They strike a balance between theory and the practical application of the theory to construction.

If you study construction technology you will acquire an understanding of basic mathematics and physics, a foundation in applied mechanics, and enough chemistry to have an appreciation for the chemical properties of construction materials. You will be trained in drafting practices and taught to read and interpret engineering drawings. Your program will also include a study of construction methods in the building and heavy construction fields, cost estimating and report writing.

Check the complete program on the next page to get a better idea of the two-year program in construction technology offered by the Technical Institute.





Professor Henry Petroski, Chairman ASCE History and Heritage Committee, and, at right, Paul Giroux, ISU ConE 1979, at May 2010 tour of the new San Francisco-Oakland Bay Bridge.

The Construction Engineering Program - PRESENT

The ConE program continues to grow and thrive. Current highlights include our strong enrollments and scholarship fund; curriculum enhancements in the area of the capstone courses; introduction of Building Information Modeling (BIM) and Leadership in Energy and Environmental Design (LEED); more mechanical and electrical content; and our growing distance education program. Students continue to log hundreds of hours in service projects and win awards in regional competitions. Two members of our faculty have recently been recognized by national associations. The University has also recognized our faculty with teaching and advising awards, as well.

Undergraduate Program

- ConE enrollments are strong, totaling 395 this past year. Women made up 12 percent of the total.
- Congratulations are in order for students who recently competed in regional and national competitions. Four teams competed in the ASC regional competition this past fall with first place wins by all of the teams, including residential, design-build, commercial, and heavy/highway. This is the first time that any university has "swept" the competition in its 17-year history. Larry Cormicle has done a tremendous job advising the teams.
- Student scholarships have remained strong with a three-year average of around $164,000 distributed to ConE students. We are very appreciative to all of the donors who support our program and students.
- ConE students continue to perform service projects to help people in need. In the past, students have assisted victims of floods, hurricanes and tornados in Mississippi and Iowa. This past spring break, 35 students logged 2,140 hours rebuilding flood-damaged homes in Cedar Rapids, Iowa. Also, the AGC student chapter recently constructed a boat ramp on the Skunk River.
- ConE student chapters of AGC, DBIA, MCA, NECA, and Sigma Lambda Chi are very active. We recently initiated an NAHB chapter.

Curriculum Enhancements

We recently solicited input on our curriculum from selected alumni on our advisory board. We obtained some very good comments regarding areas for enhancing our program. Those comments, plus feedback from our students, allowed us to make several positive changes to our program. Larry Cormicle, chair of the ConE Curriculum Committee, led the curriculum modification effort with outstanding vision and skillful management. Changes are summarized as follows:

- ConE students are taking CE 160 and CE 170 instead of Eng 160 and Eng 170. This allows our students to be exposed to content that more closely aligns to their construction background. CE 170 introduces students to BIM. We are currently investigating ways to continue to integrate BIM throughout the ConE curriculum.
- Students are now taking one additional credit of Building Mechanical Systems and one more credit of Building Electrical Systems in the two new courses offered: ConE 352 (three credits of mechanical systems) and ConE 353 (two credits of electrical systems), respectively.
- Brad Perkins is teaching a LEED for New Construction course (CE 594L) to a live and distance education audience.
- Feedback from the new capstone courses, ConE 487 (Integrated Project Delivery) and ConE 488 (Competitive Bidding), has been favorable. We will continue to make adjustments to these courses as necessary. For example, project finance will be added to the Design-Build course and advanced project management techniques will be introduced to ConE 488.
- Other curriculum enhancements that will be implemented in the upcoming catalog include making ConE 221 (Contractor Organization and Management) a three-credit class, instead of four, by moving Engineering Economics to ConE 322 (Construction Equipment). ConE 340 (Concrete and Steel Construction, also known as Formwork Design) will now be focused more on concrete and steel construction systems as opposed to primarily formwork design.
- Since its inception in 2005, the ConE Learning Community has grown from 70 to over 100 students participating each semester. Sponsorship has also grown, which has allowed us the opportunity to expand both the curriculum and activities for our students. For example, we now have a team-building activity on the last day of class which includes hockey tournaments, bowling and barbeques. In addition, we have also begun administering the KEIRSERY personality inventory, allowing us to explain how important personality traits are in group dynamics. Lastly, we have also begun training the peer mentors to be true mentors by providing them with books on mentoring and other professional development opportunities that stress the importance of the mentor/mentee relationship.

Graduate Program

Our graduate program in ConE continues to hold steady in terms of numbers with 17 graduate students (three PhD and 14 MS) enrolled. This is an area that has the potential to grow as research expenditures in ConE increase. Research projects recently undertaken by ConE faculty include the following: automatic machine guidance; electronic project collaboration; granular shoulder design and maintenance improvement; project management strategies for complex projects; nighttime construction impacts on safety, quality, and productivity; visualization and simulation for improved work zone safety and mobility; innovative design and construction for rapid bridge renewal; and virtual project management.

Faculty and Staff Recognition

- Kelly Strong received the Distinguished Design-Build Leadership Award in Education and was the recipient of the Learning Community Scholarship Award.
- Chuck Jahren was recently named the Warren Scholar for Distance Education. He is

Kelly Strong

Chuck Jahren

Jennifer Shane

Brad Perkins

Kristin Mauro

also the editor of the *ASCE's Journal of Construction Engineering and Management*—the premier academic journal in construction engineering and management.

- Jennifer Shane has been involved with promoting women in construction activities through the ConE women's group and participation in the NAWIC organization. Both she and Kelly Strong recently received a $1.25 million research contract from the National Cooperative Highway Research Program to study project management strategies for complex projects.
- Brad Perkins recently received the Joseph C. and Elizabeth A. Anderlik Faculty Award for Excellence in Undergraduate Teaching for the department.
- Beth Hartmann, Kristin Mauro, and Chuck Jahren, and the Peer Mentors, received the 2010 Learning Community Outstanding Innovations Award.
- Larry Cormicle received the 2007 Outstanding Educator Award from the AGC of America and also became the first Glenn H. DeStigter Scholar for his superior teaching and added departmental responsibilities. In 2010, Larry received an Outstanding Advising Award for assisting with the AGC student chapter.

Larry Cormicle

For a complete list of faculty and staff awards, see page 29.

Above photo: 2010 field trip to Ziegler. Photo on right: Students learning about the GPS Base Rover.

Above left photo: Enjoying their Fall 2009 Hunting Trip are, standing, left to right: Clark 'Birddog' Bowden, Spr10; Rowdy O'Grady, S10; Mike Grimm, S09; hunting dog Bo; Tim Corcoran, F09; and Landon Streit, S09. Kneeling, L-R: Brent Formanek, F09; Chris Daniels, S09; and Clark Bruelman, F09. Top right photo: ConE women at JE Dunn Headquarters; Photo at right: During Veisha 2005, Kyle Mueller, ConE'07, and Ryan Ferris, ConE'06. Bottom photo: March 2009 – The AGC Student Chapter typically spends each spring break volunteering in disaster areas to help families in need. Shown in this photo, Iowa Governor Chet Culver visits with the students at one of their jobsites in Palo, Iowa. Here the students worked an astounding 2,100 volunteer hours over their spring break.

The Construction Engineering Program - FUTURE

Our ConE program has continuously adjusted over the years in response to an inevitable assortment of challenges, including those imposed by academic, economic, regulatory, political, societal, environmental, and industry-related factors. Surely, this dynamic process will steadfastly continue. Having launched our program in an era dominated by slide-rules and black Bakelite phones, we've seen computational, design, and graphic-rendering technologies used in our field morph from analog to digital technologies to an extent that no one could have ever imagined 50 years ago. Surely, our next 50-year span will see even more astounding transitions.

Rest assured, however, that the future of our Iowa State University Construction Engineering program will forever retain a foundational focus on critical, core learning goals that have served us well, including the following academic aspirations:

- We'll still pay very close attention to instilling leadership skills in all of our students.
- We'll routinely promote independent thinking in our classrooms.
- We'll build self-reliance and self-respect while simultaneously advancing team-oriented work skills.
- We'll foster a life-long sense of pride among our graduates.
- We'll routinely refine and advance the quality of all core course offerings.
- We'll retain our pragmatically minded focus on generating highly impactful research contributions.
- We'll adamantly retain our nurturing efforts to build a community service ethic within our student chapters.

A related and logistically important uncertainty about our program's future, however, is simply whether or not we will be able to sustain our current high-level undergraduate enrollments. Admittedly, being the largest Construction Engineering program in the country is a point of pride, and assuredly, there are many companies who dearly believe we need to sustain our annual output of highly-educated ConEs. However, the negative side of this enrollment bulge is that our undergraduate student-to-faculty ratio is presently one of the highest such values within our entire ISU College of Engineering at about 30:1. By comparison, our college has an overt goal of reducing these numbers to 16:1, relative to comparisons with our peer programs. Yet another factor is that of declining high school graduation numbers, which are falling at an average rate of 6 percent within nearly all schools inside our Midwest geographic region.

Our Construction Engineering program will also be shaped by three more important factors: educational process, globalization and construction methods.

A transition in **educational process** due to technological advancements will certainly affect the way we teach. As mentioned previously, in much the same way we've gone from slide rules to computers in the past 50 years, the construction field will realize vast change in the coming 50 years. Other changes might include:

- Digital course delivery.
- Hybrid educational methods.
- Synergy and collaboration between universities and community colleges, allowing us to offer courses or programs we wouldn't typically be capable of providing.
- Paperless jobsite.
- Job-cam.

We currently have web streaming and distance-learning classes that allow us to go beyond the classroom. And virtual jobsite tours have allowed our instructors to bring students with them as they visit cutting-edge companies and buildings around the world. This technology also helps our researchers:

- Perform virtual inspections in areas of safety and quality.
- Monitor large, heavy lifts, track performance metrics.
- Use their location to serve as a knowledge expert hub.
- Set up virtual meetings with clients, banks, insurance companies, and designers.

Above photos: Virtual tour equipment

The transition toward **globalization** will allow students from around the world to attend and participate in our online classes and receive certificates and degrees from our department. For 2010, a new Graduate Certificate in Construction Management has been added to the Construction Engineering program through the efforts of Charles Jahren and with the help of the Engineering Distance Education department at Iowa State. This certificate was designed to meet the demands of working individuals or off-campus individuals, possibly from around the world. The certificate program emphasizes the applied knowledge and techniques that are used to manage financial transactions, conduct negotiations, apply strategic plans, and work with people in the industry. We must ensure our graduates and students are familiar with international opportunities and challenges in global-level practices, such as safety, material delivery, and international regulations.

A transition in **construction methods** will also require a shift in the courses we teach. Building energy-savings are escalating in importance. Over half of all energy in the United States is used for heating, cooling, and lighting buildings. Therefore, courses in green engineering design will be necessary. Also, faster, more competitive building processes and perhaps modular design methods could also be in the realm of possibilities. Our goal has continually been to teach the fundamental Construction Engineering courses and enhance coursework related to communication, leadership, and the ability to work in multidisciplinary and multicultural teams. These skills will also be critical to a ConE's future success.

A strong partnership with alumni and industry leaders will be crucial to the program's continuous improvement to:

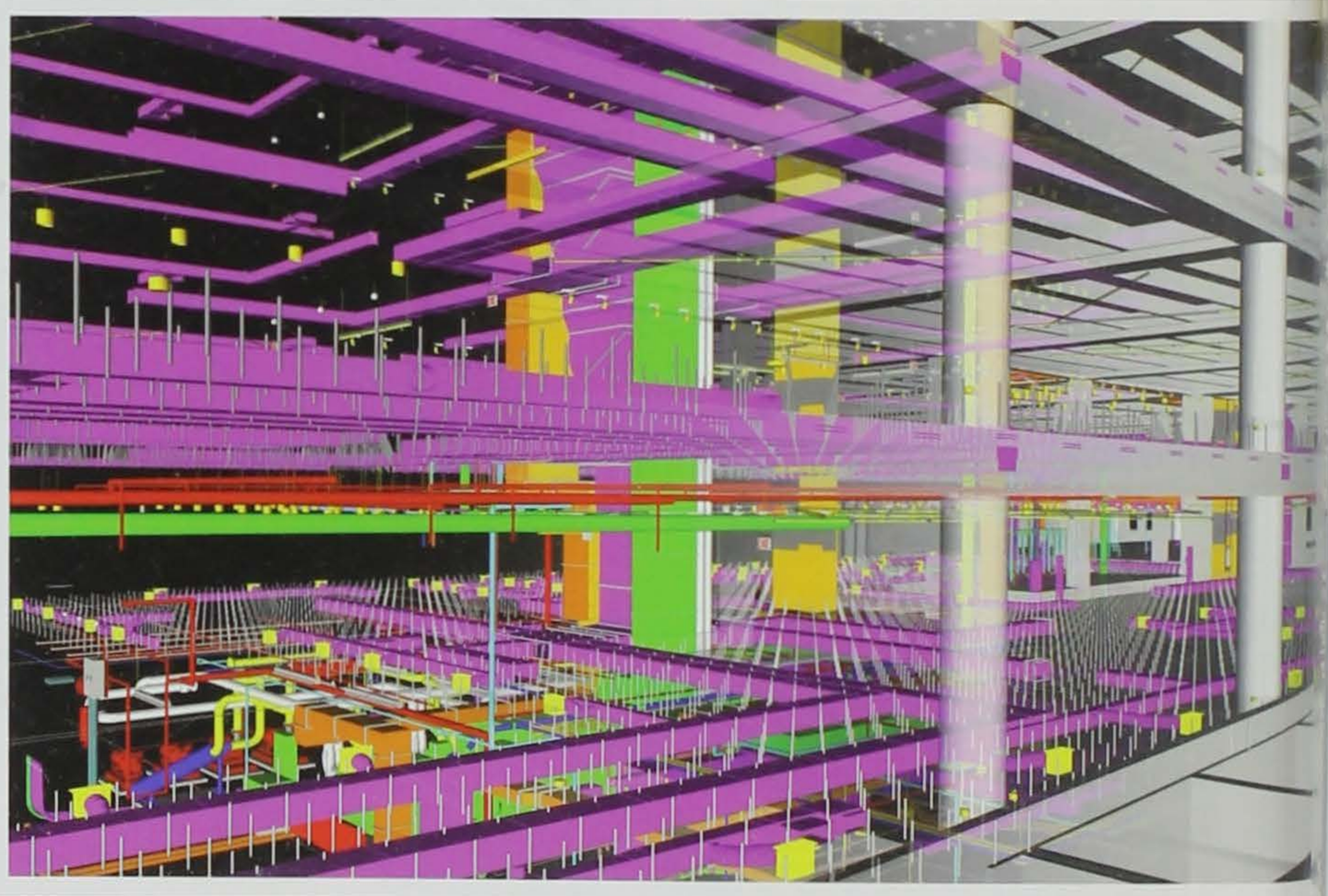
- Advance lab capabilities.
- Continue outreach programs and develop more educational opportunities.
- Maintain technology instrumentation and other classroom necessities.

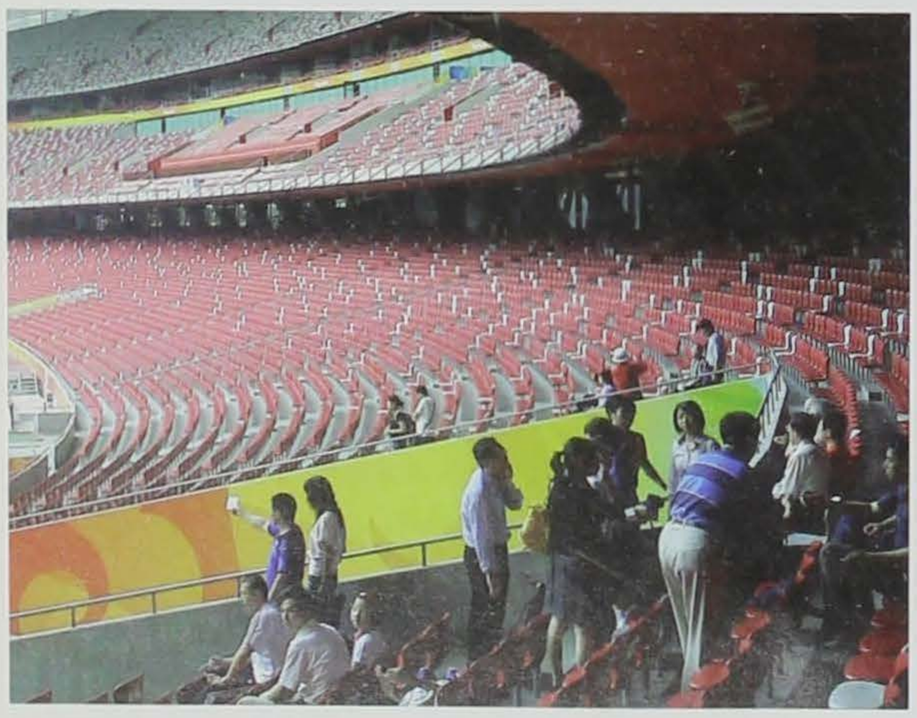
We achieve these goals through contributions and the generous support of our alumni. Please designate that you would like to give your gift to the Construction Engineering program or the ConE Excellence Fund. Mail a contribution to:
ISU Foundation
2505 University Blvd.
Ames, IA 50010-8644

Building from this solid foundation, we look forward to the challenge of maintaining our status as the leading Construction Engineering program in the country.

Photo to left:
Veisha 2010, AGC students built a sandbox for the guests of Veisha and possibly future ConE students to enjoy.

Photo to right: Building Information Modeling (BIM) image of J.E. Dunn's new corporate offices in Kansas City. Image provided by J.E. Dunn.
Photos below: Beijing National Stadium, also known as the Bird's Nest, is a stadium in Beijing, China. These photos were taken by Dr. James Alleman. The stadium was designed for use throughout the 2008 Summer Olympics and Paralympics. The stadium consists of two independent structures, standing 50 feet apart, a red concrete seating bowl and the outer steel frame around it. In an attempt to hide steel supports for the retractable roof, required in the bidding process, the team developed the "seemingly random additional steel" to blend the supports into the rest of the stadium.





CHAPTER TWO:

History of Faculty and Staff - Listing

Professorial Faculty

In Order By Date

#	Name	Years	Professors-in-Charge
1	Thomas C. Jellinger	1960-1981	1960-1978
2	Jim McKie	1964-1969	
3	Don Kawal	1966-1970	
4	Darrel Girton	1969	
5	Al Gleason	1970-1973	
6	Ira J. Ward	1970-1986	
7	Don Martin	1972-1974	
8	John G. Russo	1972-1982 & 1983-1986	1978-1982
9	Michael Whelan	1974-1980	
10	Larry Schnepf	1975 and 1983-1989	
11	Dave Lovejoy	1976-1982	
12	William H. Hastings	1976-1985	
13	Jerry Chase	1977-1996	1982-1986
14	Richard C. Ringwald	1979-1993	
15	Leonard A. Ranch	1980-1988	
16	Linwood J. Bundy	1982-1985	
17	Jerald L. Rounds	1983-1986 and 1993	
18	Tony Groh	1985-1987	
19	James E. Rowings	1986-2001	1987-1996 and 2001
20	Gary (Rock) Spencer	1988-1991	
21	Janet Yates	1988-1991	
22	Edward Jaselskis	1989-present	2007-present
23	Mark Federle	1990-2001	1997-1999
24	Charles Jahren	1993-present	2001-2006
25	Gary Smith	1997-2000	
26	Edward Minchin (Robert)	1999-2001	
27	Russell Walters	2000-2007	
28	Kelly Strong	2003-present	
29	Amr Kandil	2005-2009	
30	Jennifer Shane	2006-present	
31	Douglas D. Gransberg	2010-present	

Lecturers

Ronald L. Roth	1976-2004
James F. Fafinski	1975-1991
James Stecker	1991-1998
David Dickinson	1980-1986
David Feree	2001-2004
Gene Kellenberger	1997-1999
Steve Bell	1993-1997 & 1999-2005
Charlotte Dougherty	2001-2002
Brad Heemstra	2001-2002 & 2006-2007
Mark Nelson	2001-2002
Todd Sirotiak	2000-2009
Larry Cormicle	2002-present
Brad Perkins	2005-present
Jenny Baker	2007-present
Mark Hunacek	2007-present
Dave Harmelink	2009-2010
Chad Layland	2009
Beth Hartmann	2009-present

Richard C. Ringwald

Academic Advisors

Jamie Beyer	2000-2002
Rhonda Wiley-Jones	2002-2008
Kristin Mauro	2007-present

Secretarial Staff

Teresa (Foley) Olson	1969-1982
Donna Schradle	1982-2001
Kathy Sturtevant	2001-2007
April Franksain	2003-2009
Linda Claussen	2007-2008
Denise Wood	2008-present

Temporary Part-time Instructors

In Alphabetical Order

Tim Becker
Kevin Behling
Harley Boeke
Lin Bundy
Augusto Canales
Dave Dickinson
Larry Dillin
Gary Forristall
Jim Kickinson
Rob King
Dave Lovejoy
Al Lutenegger
Mike McCann
Kent Mosher
Norm Riis
Scott Spragg
Jim Stecker
Mark Stueve

Left to Right, Back Row: Dr. Chase, Prof. Ringwald, Prof. Nelson and Prof. Roth; Front Row: Dr. Rowings, Prof. Ranch, Donna Schradle and Prof. Groh.

Clockwise around table: Prof. Ringwald, Dr. Chase, Prof. Groh, Donna Schradle, Dr. Rowings, Bill Mosier, Prof. Ranch, Prof. Roth, and Lecturer Stecker.

Faculty and Staff Honors and Awards Listing

Alphabetical Order By Last Name

Kevin Behling	• Ralph Green Adjunct Professorship, 2003
Gerald Chase	• Superior Engineering Teacher Award, 1991 • Nominated for *The Tribune's* 2004 Unsung Heroes award for his work with the Habitat for Humanity organization
Larry Cormicle	• Glenn H. DeStigter Scholar, 2007-present • Engineering Student Council Leadership Award, 2003-2007 • Outstanding Educator of the Year Award, Associated General Contractors (AGC), 2007 • Memorable Teacher Award from the Center for Excellence in Learning and Teaching, 2007 • Joseph C. & Elizabeth A. Anderlink Faculty Award for Excellence in Undergraduate Teaching, CCEE department, 2007 • Outstanding Advising Award, 2010
Mark Federle	• President's Award, Timberline Users Group, 1992 • Outstanding Associate Member, Iowa Section, American Society of Civil Engineers, 1993 • Charles W. Schafer Faculty Award for Excellence in Teaching, Research, and Service, Civil and Construction Engineering Department, 1994 • Outstanding Faculty Member, Associated General Contractors Student Chapter, Iowa State University, School Year 1995-1996 • Certificate of Appreciation, American Society of Civil Engineers, Chair of the Engineering Management Publications Committee, 1996-1997 • Certificate of Appreciation, Iowa State University Honors Program, "A Celebration of Teaching and Learning," 1997 • Leadership Excellence Award, Master Builders of Iowa (AGC Building Chapter), 1997 • Big XII Faculty Fellowship (to University of Kansas), 1998 • Outstanding Professor in Construction Engineering, Engineering Student Council, Iowa State University, 1998 • Outstanding Advisor, College of Engineering, Iowa State University, 1999

April Franksain	• Engineering Student Council Leadership Award, 2008
Charles Jahren	• W.A. Klinger Teaching Professorship • Outstanding Service to the College of Engineering Award, Engineering Student Council, 1999 • Charles W. Schafer for Excellence in Research, Teaching, and Extension, CCEE department, 2000 • ISU Award for Outstanding Achievement in Teaching, 2009
Ed Jaselskis	• Charles W. Schafer Award for Excellence in Research, Teaching, and Extension, CCEE department, 1992 • Inventors Incentive Award, Ames Laboratory, 1999, 1994, 1992 • Best Paper Award, American Society for Engineering Education, Civil Engineering Division, 1994 • Joseph C. and Elizabeth A. Anderlik Faculty Award for Excellence in Undergraduate Teaching, 1996 • Outstanding Construction Engineering Professor Award, 1997 • Construction Industry Institute (CII) Outstanding Researcher of the Year Award, 2001 • W.A. Klinger Professorship, 2007-Present
Brad Perkins	• Engineering Student Council Leadership Award, 2006 • Memorable Teacher Award from the Center for Excellence in Learning and Teaching, 2007 • Engineering Student Council Leadership Award, 2008 • Joseph C. & Elizabeth A. Anderlik Faculty Award for Excellence in Undergraduate Teaching, CCEE department, 2010
Jim Rowings	• Sigma Lambda Chi, Construction Honorary, 1988 • Outstanding Educator Award, Master Builders of Iowa (MBI), 1992 • The Leadership Award, Design Build of America (DBIA), 1997 • Excellence in Teaching Award, MBI, 1998 • Nominated for Outstanding Educator of the Year award, AGC, 1999 • Presidents Achievement Award, AACE International, 1999
Jennifer Shane	• Best Peer Reviewed Paper Award, American Society of Civil Engineering Journal of Management in Engineering, 2008 • Charles W. Schafer Award for Excellence in Teaching, Research, and Service, 2009

Todd Sirotiak	• Memorable Teacher Award from the Center for Excellence in Learning and Teaching, 2007
Kelly Strong	• Distinguished National Leadership Award in Education, DBIA, 2007 • Charles W. Schafer Award for Excellence in Teaching, Research and Service, CCEE department, 2008 • Engineering Student Council Leadership Award, 2008 • Advising Excellence Award, College of Engineering, 2009 • Distinguished Design-Build Leadership Award in Education Learning Community Scholarship Award, 2009
Kathy Sturtevant	• Engineering Student Council Leadership Award, 2002 • 25-year Club at Iowa State University, 2002 • Engineering Student Council Leadership Award, 2003 • Engineering Student Council Leadership Award, 2005
Russell Walters	• Thomas H. Madigan Award, Outstanding Renovations, Rose Hotel, 2000 • Appointed faculty member, NECA's Education Institute, 2003
ConE Cornerstone Learning Community	• Learning Communities Outstanding Innovations Award (coordinated by Chuck Jahren and Jenny Baker), 2008 • Learning Communities Outstanding Innovations Award (coordinated by Beth Hartmann, Kristin Mauro and Charles Jahren), 2010

Janet Yates

Gary "Rock" Spencer

3 CHAPTER THREE:

Leadership Perspectives: In Their Own Words

Construction Engineering Professors-In-Charge share their experiences about the Construction Engineering program.

Tom Jellinger
John Russo
Jerry Chase
Jim Rowings
Mark Federle
Charles Jahren
Ed Jaselskis

TOM JELLINGER

Professor-in-Charge (1960-1978)

Tom Jellinger

This is my attempt to recall to the best of my ability the beginning of the Construction Engineering curriculum at Iowa State University. Please keep in mind that it's been almost 50 years since these events took place and I'm sure my recollections regarding this history may be just a little bit fuzzy. The very beginning of the Construction Engineering curriculum at Iowa State University was proposed by W.A. Klinger. I was later told they had considered approximately 50 candidates for this particular position before they talked to me. I had not submitted a resume; rather my name had been submitted by a friend of mine who was executive director of one of the industry associations in Cincinnati, Ohio. At that time I was in private practice in both structural engineering and in architecture in the Cincinnati area. Prior to that, I had been part owner of a building construction firm in which we built churches, schools, office buildings, this sort of thing.

> "Well, I later received an offer from Leonard Wolf to join the faculty as an assistant professor. Surprising to me, Ro and I discussed the offer and decided then to accept the situation. I have to give credit to Ro for this; she always seemed to know me and my situation better than I knew myself."

Leonard Wolf was head of the Department of Architecture and Architectural Engineering in the College of Engineering, and he contacted me and we set up an appointment whereby I was to travel to Ames and meet with a committee from the Master Builders of Iowa. I was usually quite good about keeping appointments. I have no logical reason that is, for missing that appointment, but miss it I certainly did. After I'd missed the appointment, Leonard Wolf called me and we set up another appointment shortly after the 4th of July. Ro and I traveled from my parents' home in western Illinois to Ames. We went early in the morning, as we didn't have air-conditioning, which most cars did not in 1960. We arrived in Ames fairly early, and since our son was ready to start the eighth grade, I was particularly interested in the high school situation. We made some inquiries and the results were not too satisfactory. In fact, I told Ro, "Let's skip the meeting and just go back to Illinois." She was a little wiser than I was as she said, "You missed the first appointment; it's only common courtesy to keep the second appointment." So we went. Klinger was the chairman of this committee to the best of my knowledge. Some of the other members were Carlton Mueller, Reuben Schaefer, and Ken Gethmam. There were two, three or four others, but I do not remember their names. I met with them for quite some time, maybe an hour or two. I met with Leonard Wolf and Claire Watson, who was also an Instructor, or Professor rather, in the Department of Architecture and Architectural Engineering. Coming in out of the rain, I was a bit brisk at the meeting, and perhaps even impolite, because I had already made up my mind that I was not going to take the position because of the high school situation that was presented for our son.

In a meeting with Leonard Wolf, we talked about the responsibilities, possible salary, and the nuts and bolts of teaching, which I had never done, and

that ended the meeting. Ro and I returned to Cincinnati, and I picked up my practice.

Well, I later received an offer from Leonard Wolf to join the faculty as an assistant professor. Surprising to me, Ro and I discussed the offer and decided then to accept the situation. I have to give credit to Ro for this; she always seemed to know me and my situation better than I knew myself. I had thoroughly enjoyed being a construction contractor. I enjoyed the variety, the excitement of never knowing from one day to the next what was going to occur. Private practice in architecture and structural engineering was more satisfying as far as earnings, but quite frankly, I became bored, because not only did I know what I was going to do the next day, but for the next two weeks. Ro recognized this and she said to me, "You're bored; you need a challenge," and so we decided to accept the offer from the College of Engineering at Iowa State University, and we moved to Ames.

We took a six-month lease on a house so we could get acquainted with the community before we purchased a place to live. Wolf was extremely helpful. He recognized that I had never taught before and that I was going to need time to get my feet on the ground. He assigned me one course for the first term, an existing course in materials and methods of construction. He also said I should spend the rest of my time getting acquainted with people across the campus and within the College of Engineering, realizing that the assignment to the Department of Architecture and Architectural Engineering was a temporary one, recognizing that when the program got started, different arrangements would be made.

George Town was dean of the College at that time, and he and I hit it off very well since he also had come to the campus from industry. I must confess that I didn't really totally understand my responsibilities at the beginning, except that it was intended that I somehow or other bring about a curriculum in building construction. Somewhat to my surprise, I found that I enjoyed teaching.

> "Somewhat to my surprise, I found that I enjoyed teaching."

There was a movement at that time to eliminate the curriculum in architectural engineering, and particularly at Iowa State as a very good percentage of the architectural engineering graduates had gone into building construction. They were members of the MBI and they turned out to be very supportive of the idea of a curriculum in building construction. My undergraduate degree had also been in architectural engineering from the University of Illinois at Champaign-Urbana. George Town provided me a considerable amount of leeway as far as course content and ideas.

When I began working to establish a construction curriculum, the very first students that were attracted to the new courses were quite naturally from construction families. I was allowed to change course and content course titles, almost nine, from day-to-day as I found it necessary. Using the Klinger curriculum as a guideline, I started developing other courses, and their contents were based upon my own experience and my own interest and goals.

The first course which I developed was extremely basic. The content was fluid and would change from quarter-to-quarter and sometimes from day-to-day. It was a time when scheduling in the construction industry was a hot-button issue. It turned out to be rather popular. In addition to the course that was developed on CPM, I developed a short course on a critical path method and took it as a dog and pony show to construction industry practitioners in 10 or 12 different locations around the state, such as Waterloo, Cedar Rapids, Council Bluffs, and Des Moines. It was very well received.

Some of the other courses developed were about specifications, site organization, and construction documents. By that time, a rough curriculum was taking shape after about a year and a half of my arriving on campus. At this time, objections to

the construction curriculum being housed in the College of Engineering started to arise. Several of the faculty in the College of Engineering had no objection to a building construction curriculum, but they did not feel that it was properly placed in the College of Engineering. At that time, there was a Technical Institute in existence alongside the College of Engineering, which granted associate degrees to the programs. Many of the faculty thought that this is where the construction curriculum properly belonged, either there or as a business curriculum.

I should mention that some of the most grandiose objections came from the faculty members who had never been exposed to any kind of industry experience. This was the case with the majority of faculty in the College of Engineering, since George Town had become dean. Following industry experience, he and I were two people against the rest of the College faculty. Three years after I arrived on campus, we turned out our first graduates with the engineering operations degree from the construction curriculum. I believe there were three in 1963.

It was about at this time that George Town retired as Dean of the College of Engineering. He was replaced by Dave Boylan, who was not from industry. He had never left the academic environment. Unfortunately, I was not the best politician, and Dave and I disagreed on many items. The curriculum did not receive what I considered proper support from the Dean's office. Under Dave Boylan, at this time also, I was fighting the changes that he made to change the degree from engineering operations to building construction. It was quite a battle, but we finally got it accomplished and the graduates from thereon received a Bachelor of Science degree in building construction.

It was about at this time that a student by the name of Cork Peterson came into the curriculum. He had no interest in building construction, but had an interest in heavy construction. So, we developed a curriculum to satisfy his particular needs. We later developed a curriculum to satisfy the needs for mechanical construction, and this, of course, led to a degree in construction engineering. Cork was our first graduate from the heavy program. The first students were all male. It was sometime later that the first female enrolled. Ann Lavalle was her name, and later more and more women enrolled in the curriculum.

It took some time to change the degree from building construction to construction engineering. Again, we faced fairly strong objections from many of the engineering faculty, but it was finally overcome—the construction engineering degree was established. Again at this time, we were successful in convincing the Master Builders of Iowa to extend their $15,000 yearly contribution for four more years, so they wound up funding the program for nine years.

I realized that it would be beneficial for the program if I at least had a Master's degree. I found then I enjoyed graduate school and had decided that I would go on for a doctorate. John Logerstrom was associate dean of the College of Engineering and said, "Tom, you're never going to have time the way the program is growing. You just won't have time to pursue a Ph.D." and he was absolutely right, because enrollment continued to grow and grow and grow.

I remember that I thought if we could build the enrollment to 150 and hold it there that would be ideal, but it quickly went to 200, 250 and on until we had 450 students enrolled in the curriculum. That stretched the teaching faculty to the point where it seemed like all you were able to do was be advisors, and I was concerned that the quality of teaching might suffer, but fortunately it did not. I can't praise the faculty enough; they did an outstanding job. I wish I could remember which particular years Ira Ward, Jerry Chase, etc. were added.

I have to give Ro credit for the name of the Erector Set she came up with—it seems to fit perfectly. Again, I cannot remember the year. It was also about

> "I remember that I thought if we could build the enrollment to 150 and hold it then that would be ideal, but it quickly went to 200, 250 and on until we had 450 students enrolled in the curriculum."

then that I established the Industry Advisory Council. It was the first one in the College of Engineering. The first one consisted of five or six active contractors from the Master Builders of Iowa. We met once or twice a year, and they were used to advise the faculty on the effectiveness of the curriculum to make suggested course changes and to evaluate the graduates.

I had become an ex-officio member of the education committee of the national AGC and was interested in establishing a student AGC chapter. I contacted the national AGC headquarters in Washington, D.C., and received a flat no. They apparently had some previous experience with one or two schools that had construction courses—and had unsatisfactory results with student chapters. I assured them that it was going to be a different story and they reluctantly gave permission. Ron Suuthard and Paul Moltz were the students who were instrumental in setting up the student AGC Chapter, and I am very proud to say that it continues to this day. It's a credit not only to the college and university, but also to the national AGC. As a result of the success of the student chapter on our campus, other schools have been permitted to establish student chapters.

Also about this time, Ro and I started the senior parties. It was a time when the number of graduates was 15-20, and we hosted the graduates and their wives or girlfriends at our house for dinner. It was always interesting. Ro mentioned many times that while it had been "Professor Jellinger" or "Mr. Jellinger" for four years, when they came to the senior party, it was "Tom, Tom, Tom." They couldn't seem to say my name often enough. They also were successful in drinking everything in the house with the slightest alcohol in it. Ro enjoyed the students just as much as I did, and I think they enjoyed her also. The parties usually lasted till two or three in the morning, and it did help build a bit of loyalty to the curriculum on the part of the graduates.

Somewhere along the line, it was decided that the construction engineering curriculum should go for ECPD accreditation, which stands for Engineers Council for Professional Development. I understand that it has now been changed to ABET. The Construction Engineering curriculum passed the accreditation examination with flying colors.

I retired in 1981. At this point, I would like to extend my congratulations to the faculty for what they have done with the Construction Engineering curriculum at Iowa State University. Since I left, the program has grown, it has matured. The course content has improved. It is now one of the strongest programs in the College of Engineering. I believe that it has overcome all of the objections which I first encountered. When I visit the campus and talk with the students and talk with the faculty, I am so much impressed.

I don't believe that my mind stretched to the point where it would encompass what has taken place. The graduates have become leaders in the industry, not just in the state of Iowa, but throughout the country. There have been many programs on many campuses that have sprung up as a result of the curriculum at Iowa State. We sent out curriculum information and course content information to several campuses that requested it. They may have, in turn, set up programs in construction engineering, building construction, and construction management. Not as many of them have gone the full engineering route as I would have liked to have seen, but they are still turning out graduates who are beneficial to the industry.

JOHN RUSSO

Professor-in-Charge (1978-1982)

John Russo

Dear ConE Friends,

During my tenure as Professor-in-Charge, the program grew dramatically to over 400 students with over 100 graduates each year. We had about the same number of undergraduates as Civil Engineering.

Our graduates continued to get two to three offers each on average. Starting salaries of over $22,000 put the ConE grads as one of the highest in the Engineering College. More and more of the recruiters were ConE grads themselves.

Major changes were taking place in the University as we converted from quarters to semesters. It gave the faculty a chance to reorganize the courses and upgrade them in many cases.

The proposals for a ConE graduate program were sown in 1981-82 and approvals came over the next year or two. The "Construction Project Operation" Master's degree was departmentally approved in 1981-82. It is unique in the United States.

Ralph Green of Green Construction in Des Moines was generous enough to help us out of our lack of faculty funding by providing full funding for a full-time adjunct faculty position for four years. Leonard Ranch, a Council Bluffs contractor with 30 years of experience, was hired to fill the position.

Tom Jellinger, the organizer of the ConE program and long time head, retired from teaching, but remained "on faculty" as an Emeritus Professor—from his new Arkansas home.

We created a new and exciting construction extension program for contractor continuing education, called PACE: Professional Action for Construction Education. It was operated by Dave Dickinson, a ConE grad and former contractor. All of the various contractor industry associations were brought into this joint venture, which was very successfully coordinated/run by Dave.

We were able to expand our space not only for new faculty and administrative help (we added an advisor coordinator), but also "found" a large space in the basement level of Town Engineering Building that was put to good use for classroom and lab work.

The number of scholarships awarded to ConE students went up due to exceptional industry support. Over $20,000 was being awarded each year.

As I left the ConE Professor-in-Charge position, so did long time (12-year) secretary/administrative assistant Teresa Olson. Ira Ward was the stable force that balanced my often straightforward approach. We more or less "initiated" the freshman Engineering concept by putting many incoming freshman (into ConE) on a "delayed entry" list because we didn't have enough faculty or staff to service them. As a result, I got a visit from the dean and vice president of academic affairs—and more faculty! Ira also was the key in our proper transition to semesters.

For me, the time I spent as head of the ConE program was challenging and a time of great transition.

The traditions of excellence started by Tom Jellinger have continued.

Sincerely,
John Russo

JERRY CHASE

Professor-in-Charge (1982-1986)

Jerry Chase

When I retired from the U.S. Army Corps of Engineers in 1977, I was extremely fortunate to be asked by Tom Jellinger to join the Iowa State faculty in Construction Engineering. I started that fall, teaching Con E 241, Construction Materials and Methods, and CE 332, Structural Analysis. Trying to re-learn what I knew about structural analysis, let alone trying to stay one step ahead of the students was a challenge and a half, and I was very relieved when the following year, I was allowed to teach ConE courses only. I soon came to love what I was doing... teaching, advising, and incorporating teamwork into what we were doing in the classroom.

> "I soon came to love what I was doing... teaching, advising, and incorporating teamwork into what we were doing in the classroom."

Some of my fondest memories were of the Student Chapter of AGC activities... initiations, monthly meetings, field trips. We also took many field trips to jobsites. These trips gave all of us a first-hand, up-close exposure to the "real thing." We visited the Caterpillar facilities in Peoria, Ill., to see first-hand the manufacture of their construction equipment, and watch the equipment being tested at their proving ground. We visited Adel, Iowa, where we learned about the manufacture of bricks and got to build a masonry wall. And then there were many visits to construction sites in Ames and sites on and around campus. On one of our trips to Peoria, Ira Ward and I were staying in the same motel room. The next morning, when we opened our door, we were greeted by a cascade of tumbling beer cans, which had been meticulously piled against the door by our enterprising students. I cherish that moment! Sally and I also remember fondly the group of students who came caroling to our house just before Christmas break. We invited them in and thoroughly enjoyed their fellowship.

Perhaps some of you can remember in the scheduling course how we had to take our activity lists over to the Computer Center and have our keypunch cards manually processed for us, which we then used to input our activity information into the computers. We have come a long way! Perhaps you can also remember how one of your first activities in the scheduling lab was to help me develop on the board a CPM diagram for the construction of an outhouse. Lots of laughs from that one! And for those of you who took the High Rise Construction course, do you remember the trip to Chicago and the uneasy feeling we had when we got off the lift at the top of that very tall building under construction? It gave us all an appreciation for those who work at such incredible heights.

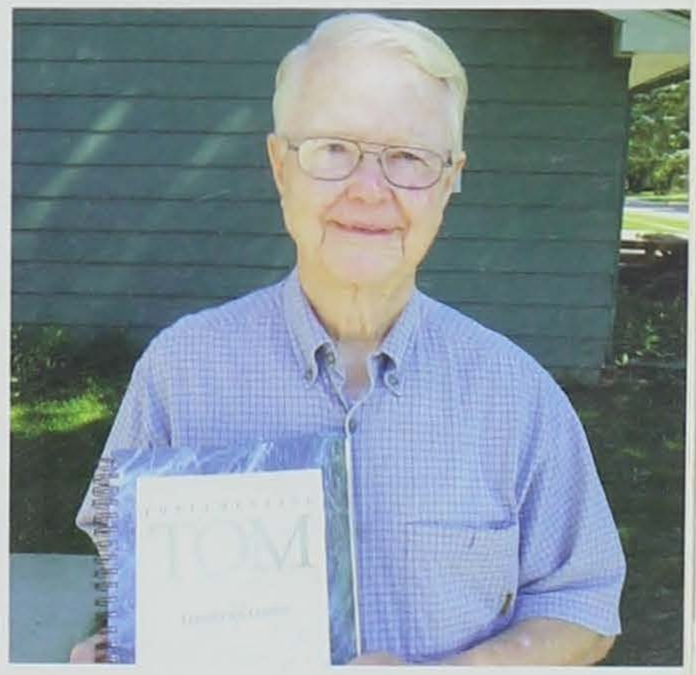
In 1982, I succeeded John Russo as the Professor-in-Charge of the program, and I remained in that position until I decided I would rather be in the classroom. In 1986, Jim Rowings took over the position, and did a marvelous job. In 1991, I was introduced to Total Quality Management by a friend from AT&T. For the next five years I spent a great deal of time researching the application of TQM principles to construction. We hosted several workshops on TQM, and, with a lot of help, I wrote AGC's book, "Implementing TQM in a Construction Company." An important spinoff outcome to this

“The faculty was a congenial and professional group, dedicated to preparing students for a career in construction.”

quality-focused effort is that we then adapted these same principles to our classrooms, where faculty started viewing students as customers, where course content and expectations were clearly defined, and where we made sure both faculty and students were in synch with course delivery. In each of my classes I promoted the concept of student-teacher teamwork and the use of student teams whenever possible. We even began offering a graduate course in Construction Quality Management, which was heavily attended by both graduate students and seniors. Looking back over my 19 years with the ConE program, I am very appreciative of the opportunity that was provided to me to interact with so many wonderful people. The students were absolutely great… eager to learn about the industry, cooperative, honest, hard working, and lots of fun. The faculty was a congenial and professional group, dedicated to preparing students for a career in construction.

One last memorable point of success was that we were very fortunate to have the services of Donna Schradle as our ConE secretary for many years. Donna became our secretary when I became Professor-in-Charge. She was an excellent ambassador for our program, interacting with parents, students, contractors, and others. She placed a very high priority on serving our students. Donna retired in 2000, and died in 2006. We all owe her a big Thank-You for her years of dedicated service to the ConE program.

Lastly, and I'm sure every one of our program's Professors-in-Charge would agree, so very much of the success of our ConE program is owed to those of you in the construction industry, not only those who employ our graduates but also those who have graduated from ISU. You have provided support in so many ways: advice, counsel, hosting student and faculty visits, providing internships, and providing direct financial support. To all of you, therefore, we extend our sincere thanks!



JIM ROWINGS

Professor-in-Charge (1987-1996 and 2001)

Jim Rowings

Dear Friends,

In 1986, an opportunity of a lifetime was given to me to become the Professor-in-Charge of the Construction Engineering program at Iowa State. The program is recognized as the premier program of its type in the world.

The program was designed in large part by a visionary in the construction business, Bill Klinger. Klinger personally designed a curriculum with breadth, depth and rigor. The basic elements remain intact today and continue to serve to prepare the students for diverse careers. When I arrived, through the efforts of my predecessors, Tom Jellinger, John Russo, and Jerry Chase, there were rich traditions and a caring culture established. The student body reflected young people with drive, curiosity, a strong work ethic, and a passion for building. The program had a loyal and engaged advisory council that welcomed me and my family to the community and offered support and advice to keep the program prominent.

One of our proudest moments occurred in 1991 when the program was recognized as the top Construction Engineering program in the country by the Gourman Report and as one of the top construction programs by *Engineering News Record*. Both of these achievements were the result of having a great student body, a top-rate Engineering College, faculty with construction experience, energy, an expectation for excellence, and a focus on developing the whole person, and an advisory council that was able to translate the industry expectations to the faculty and through to the students as they entered the industry.

In the late 1980s, we began to hire and develop faculty for the future with hires such as Ed Jaselskis. While we maintained the excellence in undergraduate education, we grew our graduate programs, started to perform industry-related research, and worked on a variety of outreach projects with the construction industry such as the Master Builders of Iowa. The opportunities for co-op and internships grew, as did the number of job offers for our graduates.

We continued to add faculty in the '90s and made several adjustments in our curriculum with the guidance and support of our industry advisory council. We added rigor to our curriculum, added a capstone senior level course that involved application of the core construction subjects on a major project, and created a new learning environment for this senior class. In the late 1990s we had an opportunity for an on-site learning laboratory when a new engineering building was being constructed. Through the generosity of the Weitz Company, this lab allowed many students to undertake a special study project related to a specialty or segment of construction of this building project.

The 15 years associated with Construction Engineering were professionally rewarding. Ames was a great place to raise our family and we have many close friends associated with the program and in the community. I wish the program continued success and hope it thrives for the next 50 years with the same tradition of "Building with the Best" that it has enjoyed since the beginning.

Sincerely,
Jim Rowings

MARK FEDERLE

Professor-in-Charge (1997-1999)

Mark Federle

Dear Friends,

Personally, the academic years from 1997 through 1999 were very exciting for me and for the program. Because of the efforts of the faculty and the students, we saw a lot of changes at Iowa State and within the Construction Engineering program.

Some of my favorite memories (and apologies if I am off somewhat in my timing on when things occurred):

- Taking my kids to AGC Student Chapter meetings. Who would have ever thought that young kids would enjoy the technical presentations that they saw? (I am sure it had nothing to do with the pop and cookies at the meeting.) Then there were the FACs / Pizza Parties—the skills some of you taught my kids in playing video games stay with them today. (And they are still constantly honing those skills!)
- We saw a dramatic increase in the number of internships offered to our students. It was great to see students provided the opportunity to work all over the country; it was even more of a treat to visit some of them at their places of employment.
- The curriculum changed to reduce the number of credit hours and offer an Electrical Emphasis within ConE. Additionally, we were able to start both the MCAA and NECA chapters, providing additional leadership opportunities for various students—I even had the chance to take a few to National Conventions for theirs (and my) professional development.
- The banquets during those two years had two great speakers—Steve Halverson, now CEO of Haskell Corporation, and the Project Manager on the I10 project in Utah. Both speakers left the audience excited to be part of this great industry.
- Our students participated in the first student competitions. That first year Professors Smith, Jahren, Rowings and I all provided mentoring to the student groups—hopefully creating some of the foundation that the student teams have used to great success over the past 11 years.
- VEISHA came back and within ConE, with a vengeance. I still remember being asked: "Dr. Federle, assuming that the Dozer broke some of the concrete sidewalk, should we just cover it up?" The number of folks climbing all over the equipment was both scary and exhilarating at the same time!
- With the construction of Howe Hall and the generosity of The Weitz Company, faculty members were able to offer a unique learning environment as part of the ETRC construction. OWLL (On-Site Weitz Learning Lab) made a significant contribution in the education of ConE students. A special thanks to Doug Powell, Frank Sedlacek and Glenn DeStigter (all with Weitz) for making that special opportunity possible.

Overall the nine years I spent at Iowa State, including the two as Professor-in-Charge were some of the most rewarding of my career. To the alumni, program supporters, faculty, staff and students who made that possible: THANK YOU!

If anyone is ever in Milwaukee, please let me know—I do know of a few breweries in the area.

My Best Always,
Mark Federle

CHARLES JAHREN

Professor-in-Charge (2001-2006)

My tenure as Professor-in-Charge of the ConE program started in 2001 when the program was facing a faculty shortage (two faculty members had just left the program) and Iowa State University was dealing with budget cuts. In the meantime, the Construction Engineering program was enjoying strong undergraduate enrollments and had a great reputation. It was obvious that we had to rebuild our faculty and staff. In addition, discussions with the Construction Engineering Industry Advisory Council, our department chair Lowell Greimann and many others convinced me that we also needed to work to add more donor support for our program as a cushion against budget problems and to fund the many "extra" things that the ConE program does to create excellence. In fact, those "extra" things were not really "extra" anymore. They were part of the fabric of the program and necessary to our success—the challenge was that they could not be funded with general fund money.

> "In the meantime, the Construction Engineering Program was enjoying strong undergraduate enrollments and had a great reputation."

To permanently and temporarily fill our teaching positions, our alumni pitched in. Todd Sirotiak (BS ConE '84, MS '97, PhD '08) joined our faculty as a full-time adjunct professor (later lecturer) and started teaching our capstone course, among others. Under his leadership, students turned in mock bids for $30 million dollar institutional buildings and created professional quality conceptual designs for commercial developments. Other alumni taught part-time while they held their day jobs in the community: Mark Nelson (MS ConE '88) taught our introductory sophomore course ConE 221, and Steve Bell (ConE '81) taught our Contract Documents course. Also, Brad Heemstra (ConE '84) taught our planning and schedule course. Russ Walters and Ed Jaselskis were the only other faculty members in ConE at the time. Russ had started a year before and was strengthening the mechanical and electrical options of the program. Based on Ed's longer experience with the program, he served as a great sounding board for ideas, and continued to do heavy lifting with regard to teaching, research and scholarship. Ed had just won the Construction Industry Institute Researcher of the Year Award and was serving as editor-in-chief of the ASCE's *Journal of Construction Engineering and Management*, thereby upholding the program's academic reputation.

As long as we were changing things, we also changed ConE secretaries! Donna Schradle, our award-winning secretary of many years retired with our profuse thanks for being an effective representative of our program—and we welcomed Kathy Sturtevant who continued to positively engage our stakeholders.

Glenn DeStigter was the chair of the ConE Industry Advisory Council and after discussion with other council members, suggested that we launch the "Construction Engineering Excellence Fund." Advisory Council members were asked to consider making five-year pledges to donate $5,000 per year, which would be used as part of a discretionary fund to finance the ConE "extras" that I mentioned in the first paragraph. The goal was to add $50,000 per year to the ConE budget. Our department chair, Lowell Greimann, was leading a departmental fundraising effort, which included alumni gatherings in surrounding cities such as Chicago, Minneapolis, Kansas City and Omaha. Construction Engineering

joined in that effort and after a couple of years, we met Glenn's challenge.

Another important item on the fundraising side, was that the descendents of Bill Klinger, the industrial founder of our program, completed an endowment that made the W.A. Klinger Teaching Professorship possible. This was meant for the Professor-in-Charge of the program, so I was named the first recipient in a ceremony at the Knoll (the ISU President's House) that was well attended by construction industry and faculty members.

At one of our alumni gatherings in Chicago, we met Larry Cormicle (ConE '78), an alum who had 24 years of commercial construction experience and professed a passion to teach—and backed it up with several years of part-time community college teaching experience. ConE currently had a faculty position open, but the vacancy required a master's degree and Larry did not have one. We were impressed and asked the question, "Could we convince the university administration that a person with Larry's qualifications should be considered for a faculty position in Construction Engineering?" We were adamant that the answer should be "yes." We eventually convinced our administrators and hired Larry. Of course, we were not disappointed as Larry rigorously took charge of three classes per semester, led award-winning Associate Schools of Construction Competition teams and AGC student chapters, and collected the AGC Educator of the Year Award, among others.

Again, we broke with tradition and hired ConE's first full-time professional advisor, Rhonda Wiley-Jones. She took ownership of the advising process and with the help of faculty, streamlined the requirements, reduced the number of petitions, and improved our recruiting process, especially focusing on minorities and women. Along with Professor Kelly Strong, Rhonda launched our award-winning Cornerstone Learning Community that provides a personal and engaging experience for our freshmen and incoming transfer students. With donor funding, we were also fortunate to have April Franksain join our team as a part-time secretary. She pitched in to help with the Erector Set, scholarships and advising.

Charles Jahren

We continued to fill other faculty positions. Dr. Kelly Strong (CE '80) joined our program in 2003. He brought experience from Design-Builder Opus and several years of faculty service in Business Administration programs. This was a great match for Construction Engineering, which needed to expand into integrated delivery systems such as design-build and shore up its offerings that include business and management topics. We went on to add two recently graduated PhDs to the faculty, Amr Kandil and Jennifer Shane. Amr continued his PhD interests in high technology and Jennifer continued her PhD interest in owner budgeting for construction and design-build. When Russ Walters left our faculty, Brad Perkins (ConE '97) expressed interest in joining our faculty. His qualifications were similar to Larry Cormicle's, except that he was earlier in his career and his interests focused on mechanical construction. We have been similarly pleased with the result of his efforts.

When I left the position of Professor-in-Charge in 2006, ConE had increased its faculty membership from 4 to 8 full-time positions and its staff membership from 1.5 full-time equivalents to 2.5 full-time equivalents. We added the Construction Engineering Excellence Fund, a professorship, and increased activity to our other donor accounts. All this progress could not have been made without the support of the faculty and staff (both in Construction Engineering and Civil Engineering), students, alumni, the ConE Industry Advisory Council, the ISU Foundation and the ISU administration. I would like to thank all these people for helping to make my time as Professor-in-Charge a satisfying and memorable experience.

ED JASELSKIS

Professor-in-Charge (2007-Present)

I am honored to hold the title of Professor-in-Charge of the Construction Engineering program here at Iowa State University. Looking back over the history of the program as we prepared for the 50th anniversary celebration, I realized what forward-thinking and dynamic individuals filled this role before I took over in 2007. It is a humbling experience to be included in this group.

There are many roles played by the head of the construction program: course and curriculum oversight, working with our dedicated advisory board, student chapter oversight, alumni relations, fundraising, personnel and student issues, and managing program foundation accounts. This is all in addition to a professor's normal duties of teaching, student advising, and research.

Ed Jaselskis

During the past three years I have worked in a team environment to move the ConE program forward. Along with the department chair, faculty, staff, students, and industry advisory council, many great things were accomplished:

- A new senior capstone laboratory, the Thomas and Ro Jellinger Laboratory, is in the works and will provide a state-of-the-art collaborative learning environment. The lab will replicate a real-world design and construction office. There will be capacity for 68 students including nine team areas with computers and LCD monitors. I thank everyone who made this possible.
- The initiation of a Construction Hall of Fame will recognize individuals associated with the program who have left a significant mark on the construction industry and their communities. The first three deserving members will be initiated at the 50th Anniversary Banquet.
- Scholarships for ConE students reached an all-time high of approximately $200,000. This is a significant and much-appreciated philanthropy as it provides so many students with the means to pay for college costs.
- Important curriculum enhancements were made to keep up with the changing industry environment. ConE students are now learning about building information modeling (BIM) and are designing building projects. We are working on a plan to incorporate BIM throughout the curriculum. A new LEED course is being offered at the graduate level for students interested in obtaining LEED AP certification. Additionally, there is now a required two-semester Learning Community course that allows students to get engaged with the construction program during their freshman year. Finally, project finance will be added to the capstone course.
- Some key changes in faculty and staff have also occurred during my tenure. Beth Hartmann, a former commander in the U.S. Navy, was hired in the fall of 2009 as a lecturer. She has made significant contributions to the program particularly related to communication, leadership, and design-build project delivery. Denise Wood, the former secretary in Structures for many years, became the ConE secretary in 2008. Her familiarity with the program and top-notch skills are greatly appreciated. In addition, Dr. Doug Gransberg, a professor from the University of Oklahoma, will be joining the faculty next year as a senior faculty member in our department. He has a special emphasis in project delivery of transportation projects and cost estimating.
- A new National Association of Home Builders (NAHB) student chapter was created for students

interested in residential construction. This student group has competed in regional ASC competitions seven times and has won first place on two occasions.

- The number of women in ConE has been growing and women now make up approximately 12 percent of the undergraduate student body. The undergraduate women have formed a student group—although not officially a student chapter organization. The group visits construction sites, meets with other female leaders in the industry, and has social events.
- The student teams have always done an outstanding job representing ISU at the ASC regional competitions. And this year, for the first time in the 17-year competition history, our ISU ConE teams swept the regional competitions in Nebraska. Congratulations to the Commercial, Design-Build, Heavy/Highway, and Residential teams. A special thank-you goes to Larry Cormicle for his dedication and guidance as advisor to these teams.
- For the past three years, we have been experimenting with ways to bring the jobsite into the classroom using mobile video equipment. By using this technology, students sit in the classroom and watch a live jobsite tour and are able to interact with the tour guide on the construction site. So far, we have presented several project site tours with much positive feedback. An article appeared in ENR (July 28/ August 4, 2008) describing this approach.

It has been 21 years since I began my teaching career as an assistant professor in the ConE program at ISU. Over the years, I have had the pleasure of working with students truly engaged in the learning process, faculty who strive to keep ConE on the forefront of construction education, and a dedicated advisory board that is second to none. I am truly grateful for the opportunity to lead this outstanding program.

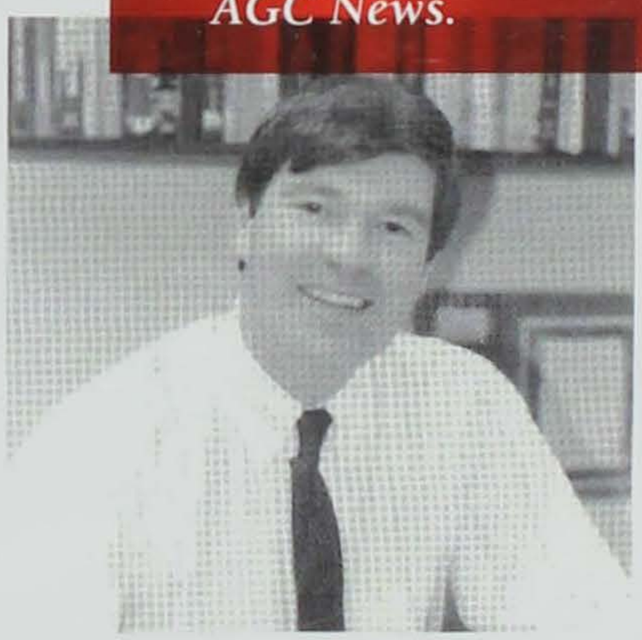
Excerpt from 1985 AGC News.

New Faculty

The AGC Student Chapter would like to extend a warm welcome to the newest member of our faculty, Dr. Ed Jaselskis. Dr. Jaselskis comes to us from the University of Texas at Austin where he had one semester of teaching experience. He received his B.S. from Illinois in General Engineering, his M.S. at M.I.T. in Civil Engineering with specialization in Construction Engineering and Project Management, and his Ph.D. at Texas.

Dr. Jaselskis has considerable field experience. He has served as a construction administrative assistant while attending graduate school. He also has worked on a project in Colombia as a field safety engineer. Exxon employed him as a cost scheduling engineer for two years in New Jersey. This experience is without doubt serving his students well as he teaches Contractor Organization and Management of Construction (Con E 371) this term.

On the more personal level, Dr. Jaselskis enjoys golf, swimming, and guitar. He is "concerned with people in general" and enjoys the "personal satisfaction" of teaching. Being on the "cutting edge" is what has driven him to get his doctorate. Needless to say, he carries a resume of considerable size. Among his honors are membership in Tau Beta Pi, Phi Kappa Phi, and The Scientific Research Honorary Society.



Dr. Ed Jaselskis

Make an appointment to introduce yourself; you will enjoy talking to Dr. Jaselskis.

Kevin Behling

4 CHAPTER FOUR:

History of the Advisory Council

The Advisory Council Committee was established by Professor Tom Jellinger in about 1969.

He received permission for the first College of Engineering Advisory Board from Dean George Town. When Dean David Boylan arrived, he told Professor Jellinger to disband the committee, and Mr. Jellinger refused, saying that it was started with Dean Town's permission and that is the way it is. Much to Professor Jellinger's surprise, that explanation worked and the advisory board continued.

The first committee included the following

1. David Culver of Bechtel, San Francisco, Calif.
2. Kenneth Gethmann of Gethmann Construction, Gladbrook, Iowa.
3. Edwin Law of the Law Company, Wichita, Kan.
4. Leo Cagley of Green Construction, Des Moines, Iowa.
5. William Kuhne-Simmons, Champaign, Ill.

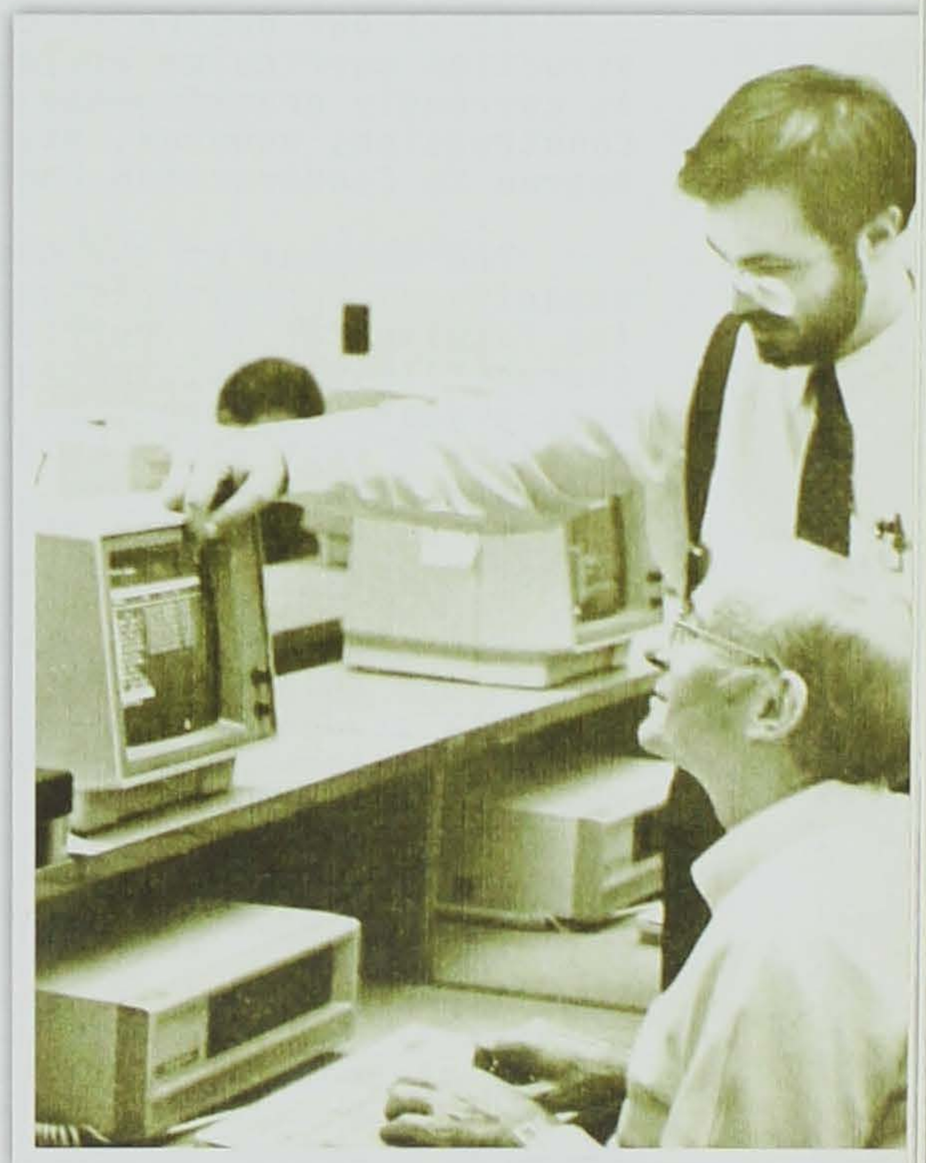
The original committee met at least once a year and served in the advisory capacity to the faculty on such matters as curriculum, job opportunities for graduates and summer interns, and advice on administrative and other matters of importance.

Presently, the committee has continued to function by meeting twice per year. The membership is diverse and continues to serve today with representatives from general building contractors, heavy/highway contractors, mechanical contractors, electrical contractors, and public and private owners.

The committee meets to review the curriculum and serve as advisors to and advocates for the program. Members also strive to provide the same guidance as the original committee.

Throughout the years it has not been uncommon for the executive committee to meet with the dean and discuss problems which the committee believed could restrict and hamper the success of the program.

Committee members receive no honorarium for their services and pay all of their own travel expenses.



Gary "Rock" Spencer, assistant professor, assisting someone on the computer in 1989.

Letter from Tom Jellinger as he was trying to create the Advisory Council.

January 17, 1969

Mr. Ralph Green
Green Construction Company
1321 Walnut Street
Des Moines, Iowa 50309

Dear Mr. Green:

It is our desire to create an Advisory Council for the Construction curriculum at Iowa State University. This curriculum is currently granting the Bachelor of Science degree in Building Construction; however, meetings are now under way to change the degree to Construction Engineering by the fall of 1969.

The purpose of the Advisory Council would be to act in the capacity of consultants and advisors to the Construction Engineering faculty, to the curriculum, and to myself as Professor in Charge. Initially, the intent is that the group would meet only once a year. However, in all probability, before too long, two meetings a year would no doubt be desirable. We would like to have men from the various fields of the construction industry as members on the Council and still limit it to a small number, probably no more than five.

Our Construction curriculum is a four-year degree program within the College of Engineering. We currently have 100 undergraduate students with the anticipation that the next two or three years will show relatively rapid growth. We have an active Student Chapter of the Associated General Contractors which is one of only a small number to be granted a charter by the national association. We currently are considering the establishment of a chapter of the construction honorary society.

I am sure that it comes as no surprise to you that the University can offer no honorarium or even attempt to pay your travel expenses if you should consent to serve on this Advisory Council. We could not attempt to pay you in proportion to your worth as a member of the Council and therefore ask you to serve gratis. For the current year our meeting would probably be held some time during the latter part of April with the final date dependent upon the availability of the five members of the Council.

I earnestly request that you accept this invitation and provide us with the benefit of your counsel for the betterment of construction education at Iowa State University and the ultimate benefit of the industry in which we are all interested.

Sincerely,

Thomas C. Jellinger
Professor in Charge
Building Construction

TCJ:ljm

This same letter was sent to the following ~~four~~ five men:

Mr. H. S. Turner
President
Turner Construction Company
150 E. 42nd Street
New York, New YOrk 10017

Mr. W. A. Klinger
President
W. A. Klinger, Inc.
2015 E. 7th Street
Box 1768
Sioux City, Iowa 51102

Mr. Donald W. Decker
Blackinton & Decker, Inc.
2017 S. University Blvd.
Denver, Colorado 80210

Mr. David S. Culver
Division Manager of Construction
Hydro & Transportation Division
Bechtel Corporation
50 Beale Street
San Francisco, California 94119

Mr. Ken Gethmann
Gethmann Construction Co., Inc.
Box 220
Gladbrook, Iowa

Advisory Council Company Listing

A listing of companies that have been represented on the Advisory Council

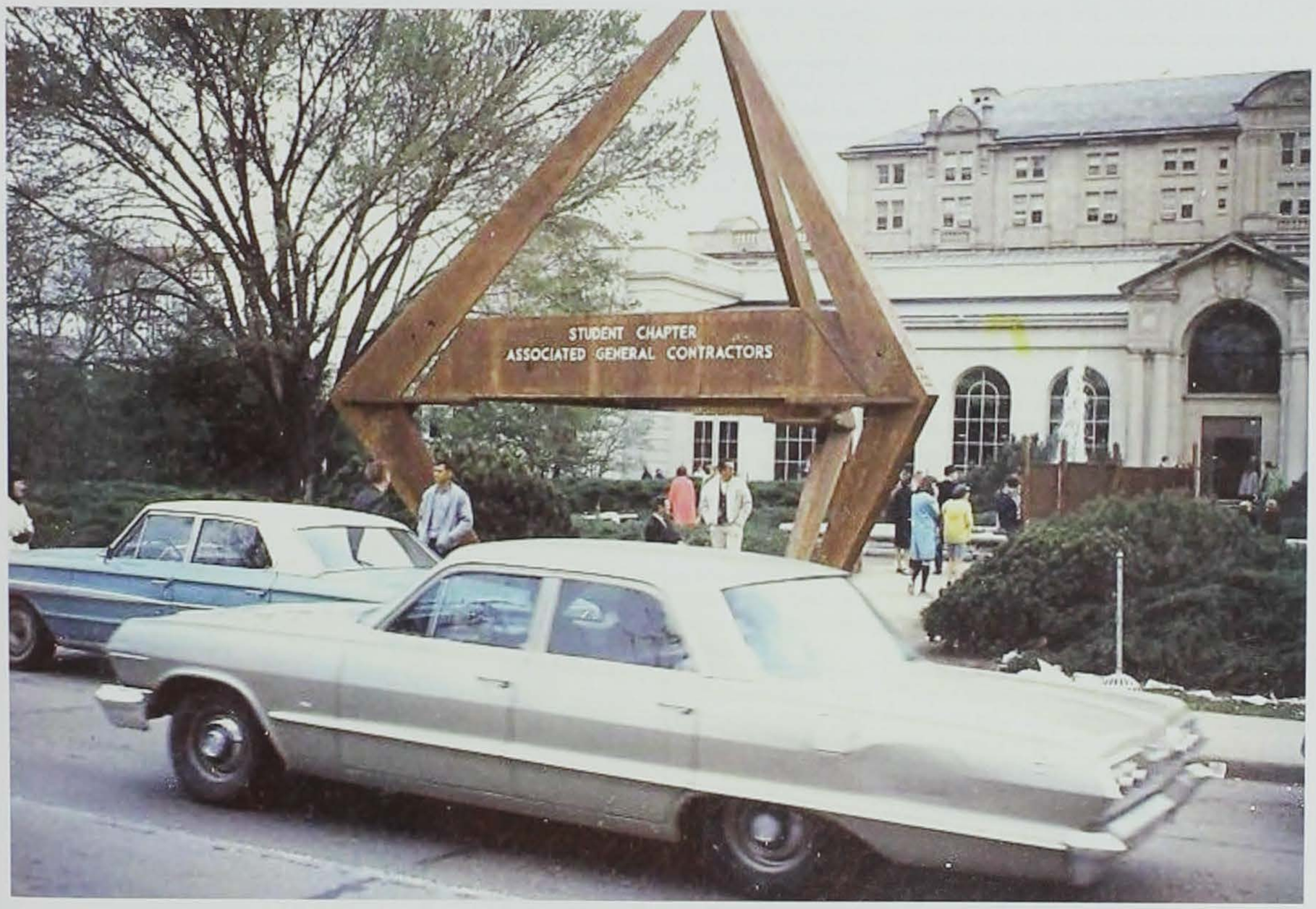
ACI Mechanical Corporation
ACI Mechanical, LC
Ball Construction Services
Bechtel
Black & Veatch
Cedar Valley Corporation
Construction Service Inc. - Omaha
Economy Forms Company (EFCO)
Estes Company
Flannery Construction
Gethmann Construction Company
Green Construction
HCB Contractors
Integrity Construction Services
Iowa DOT
Iowa State University
J.E. Dunn Construction Company
Kiewit Construction Company
Kuhne-Simons
Law Company
MA Mortenson
Manatts, Inc.
Martin K. Eby Construction Company, Inc.
Nelson Electric Company
Oakview Construction Company
Opus Northwest
Pepper Construction Company
Peterson Contractors, Inc.
Russell Construction
Saudi Arabian Oil Company
Seedorff Masonry, Inc.
Story Construction Co.
Taylor Ball
Taylor-Ball of Iowa
TEC-CORP
The Beck Group
The Waldinger Corporation
The Weitz Company, Inc.
The Weitz Corporation
Thompson Electric Company
Weis Builders
Western States Fire Protection Co.

Jim Rowings and wife Ladona.

Back Row: Dr. Russo, Dr. Rounds, Prof. Dickinson; Middle Row: Prof. Ranch, Prof. Ringwald, Prof. Groh and Prof. Ward; Front Row: Donna Schradle, Dr. Chase and Fern Parrish.

CHAPTER FIVE:

History of the Student Organizations and Awards



ASSOCIATED GENERAL CONTRACTORS (AGC)

The ISU AGC Student Chapter is an organization designed for Construction Engineering students, helping them to become involved in the program and allowing them to perform extensive community service. The chapter promotes camaraderie among classmates and enhances their industry involvement, while broadening their knowledge and their opportunities for interaction.

The ISU AGC Chapter made the trip to Mississippi from 2006-2008, devoting their Spring Break time to helping out those in need in the aftermath of Hurricane Katrina. Pictured above are the 2008 volunteers. The 44 students performed an amazing 2,750 hours of community service.

The purpose and aims of the Student Chapter of the Associated General Contractors are:

- To develop an appreciation and understanding of the ideals and objectives of the National Chapter of AGC and to promote these ideals and objectives through the organization.
- To emphasize and promote professional and social aspects of the student organization at Iowa State University.
- To emphasize the educational concepts within the construction industry.
- To acquaint students with new trends and ideas in construction so that they may be better prepared for their future work.
- To inform the general student body of Iowa State University and to represent the members collectively in all extra-curricular matters relative to the faculty and students of Iowa State University, the profession, and other campus activities.

There are approximately 150 members.

Left to Right, Back Row: Jim Rowings, Janet Yates, Ed Jaselskis, Jerry Chase; Front Row: Richard Ringwald, Gary "Rock" Spencer

Excerpt from the 1985 AGC News.

INSIDE:

Calendar of Events | News & Reports | Job Outlook

A.G.C. NEWS

FALL EDITION, 1985 CONSTRUCTION ENGINEERING, IOWA STATE UNIVERSITY

Where We Are . . . Where We're Going

This year AGC awareness is a highlight for the fall semester. The cabinet has talked to over 100 high school seniors and more than 700 freshman engineering students thus far in the semester. The high school seniors were on campus as a part of visitation day for E-Week '85. The presentation was concerned with the explanation of what a Construction Engineer does and how the AGC Student Chapter relates to their overall learning experience. We presented a short slide show, explained the Construction Engineering curriculum, the misconceptions about a Con E, and gave out about 60 ISU Construction Engineering mechanical pencils and as many ISU Construction Engineering stickers so that each student had something to take home with them.

A slightly different presentation was made to the Freshman Engineering 101 class. Each professional organization associated with an engineering curriculum was allowed to make a five-minute presentation to six different Fr E 101 classes. The time limit forced us to merely highlight the activities of AGC and encourage them to get involved.

The AGC has really made a move towards involvement this year. Along with all of the regular AGC yearly activities, two new ones will hopefully attract attention and create another sense of involvement with the AGC. I am speaking of the Oral History of Construction and the Outstanding Student Chapter of the Year Award. The oral history idea evolved at Texas A&M where the local chapter decided to find out the history of local contractors who had deep roots in the area. The idea became national in an effort to preserve the history of construction in a written form based on interviews with the people who are a part of that history.

Our chapter with these and many other activities is truly an outstanding chapter in its own right. However, this year we are going to make an all-out effort to obtain national recognition for everyone's efforts. The Outstanding Student Chapter of the Year Award is a national competition which recognizes those chapters who best exemplify the purpose and character of The Associated General Contractors of America.

The ISU AGC Student Chapter has started what promises to be an exciting and eventful year. I would encourage all of the students who read this to take an active part in this reputable organization and thereby come in closer contact with the construction industry.

Joel Peterson ('86)
President

AGC Student Chapter: Link Between Student and Industry

The AGC student chapter provides one of the strongest links between the construction industry. Through its many different activities it allows students to learn from, rub shoulders with and experience the industry.

Learning from the industry comes through the many fine speakers making presentations at regular meetings. Students have the opportunity to learn from practicing constructors. They hear about current practice and how the academic learning applies to the real world of construction. They are also exposed to topics not extensively covered in class such as bonding, insurance and labor contract negotiating. There is always time for questions and answers in an informal environment so the students can find out "what they always wanted to know but were afraid to ask."

Rubbing shoulders with the industry comes through club sponsored activities such as the annual Fall tailgate party and the Spring banquet. Many contractors, a number of them are alumni of the Con E curriculum, attend these and other events, providing an excellent opportunity for students to mingle with practitioners. This way students can make contacts and acquaintances, learn about the current state of the industry and find out from recent grads what is likely to befall them when they graduate.

Experiencing the industry is also provided through various club activities. The annual AGC Student Chapter field trip combines a get-away break from the books with an opportunity to visit major construction projects in one of the nearby metropolitan areas. Trips to Kansas City, St. Louis, Minneapolis, Denver, and Chicago have given the travelers a chance to visit a number of projects in a short period of time in strong construction markets.

Even greater experience is gained from service construction projects. In the last year, several pieces of playground equipment were built and a parking lot was paved. The most significant project, however, was to provide complete construction management service to the Boone School District for design and construction of two complete grade school playgrounds. Students were involved in carrying the concept through design, procurement, planning, scheduling and construction of the projects. Extending over the greater paret of two semesters, the two students responsible invested more time than is normally expected in a 3-credit hour course. However, the benefits in experitial learning richly rewarded the time investment.

These are just some of the many opportunities afforded students through active membership in the AGC Student Chapter. The Chapter serves a vital part of their Construction Engineering education as well as providing entertainment and comradery.

Dr. Rounds, Faculty Advisor

DESIGN-BUILD INSTITUTE OF AMERICA (DBIA)

The Iowa State University Student Chapter of the Design-Build Institute of America was organized in 1998 under the leadership of Dr. Jim Rowings, who was the Professor-in-Charge of the ConE program at that time. After a successful organizing effort which resulted in sustainable levels of sponsorships, funding, and student members, the Iowa State University DBIA Student Chapter was formally chartered by DBIA in 1999. Since the chartering, two student members (Leslie Peterson, 2004, and Brian Harry, 2008) and two current faculty members (Dr. Jennifer Shane and Dr. Kelly Strong) have received national leadership awards. The ISU DBIA Student Chapter was also recognized by the DBIA National Office in 2004 for dedication to fostering design-build delivery.

CCEE Assistant Professor Jennifer Shane (far left) led DBIA students to the annual conference in Las Vegas where Brian Harry was the 2008 recipient of the DBIA Distinguished Leadership Award. Harry graduated in May 2008.

The ISU DBIA chapter holds regular meetings on the second Wednesday of each month. Free pizza and beverages are served at each meeting and a presentation/discussion is led by an industry professional.

There are approximately 20 chapter members.

DBIA Student Chapters are dedicated to promoting widespread and successful utilization of the design-build project delivery method in shaping the build environment. To accomplish this goal, they are committed to fostering interdisciplinary education and communication about integrated facilities delivery at the university level. This goal is facilitated through active participation by Student Chapter members and:

- Local DBIA professionals and corporations.
- Students and faculty in design and construction-related disciplines.
- Local professional organizations representing architecture, engineering, landscape architecture, general contracting, law and government.
- National DBIA programs and services.

The Design Build Approach

Design-build is a method of project delivery using a single source for architectural, engineering and construction services. In this scenario, one "master builder" is held accountable for providing the entire package of services from concept to completion.

MECHANICAL CONTRACTORS ASSOCIATION (MCA)

The goal of the Iowa State University Mechanical Contractors Association (ISU MCA) is to develop and support an interest in the specialty trades of mechanical construction. The student chapter is associated with the Mechanical Contractors Association of Iowa (MCAI), as well as the Mechanical Contractors Association of America (MCAA). Objectives include:

- Promoting communication and networking between student members and contractor members.
- Expanding the student members' knowledge of the mechanical industry.
- Uniting and promoting fellowship between student members and the professional societies that serve the mechanical industry.
- Familiarizing students, faculty, and administration with the professional character and economic impact of the mechanical industry.

The chapter is composed mainly of Construction Engineering and Mechanical Engineering students with an interest in the specialty trades of mechanical construction. The chapter has monthly meetings with guest speakers, volunteer activities, monthly MCA of Iowa meetings in Des Moines or Cedar Rapids, and a national student competition in the fall. Other activities include golf outings, tailgates, jobsite tours, and Friday After Class (FAC) events. The chapter offers students an opportunity to network with contractor members and see what heating, cooling, and new mechanical systems are like.

At monthly meetings, MCA brings in subcontractors, either in the sheet metal or plumbing subcontracting areas of construction. At the beginning of the meeting the cabinet goes over upcoming events—community service, field trips, leadership opportunities, and events with MCA of Iowa.

There are approximately 35 members. The chapter was established at Iowa State University in 1999.

THE NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION (NAWIC)

NAWIC A self-governing, not-for-profit group, the National Association of Women in Construction was organized to promote and support women involved in construction-related fields. NAWIC (NAWIC) provides many benefits to its members, including community awareness, professional leadership and educational programs, and national and local scholarship programs.

2009-2010 members pictured, left to right: Kasi Dicker Claire Bassett, Angela Rohde, and Erica Kabat.

The National Association of Women in Construction originally began as Women in Construction of Fort Worth, Texas. It was founded in 1953 by 16 women working in the construction industry. Knowing that women represented only a small fraction of the construction industry, the founders organized NAWIC to create a support network. Women in Construction of Fort Worth was so successful that it gained its national charter in 1955 and became the National Association of Women in Construction.

Each year, members attend a national convention. Iowa State University's chapter is in Region 13, which consists of schools from Illinois, Iowa, Minnesota, Nebraska, South Dakota and Wisconsin. Each region meets twice yearly for spring and fall semester sessions. Specifically, the Iowa State University chapter is part of the NAWIC Quad City Chapter #50, which was established in 1961 and originated with 26 members.

The Iowa State University NAWIC student chapter meets monthly for a dinner, program, and a business meeting. Each summer, the chapter awards scholarships to students enrolled in construction-related degree programs.

Photo on Right: Glenn DeStigter (in red cap) and Jim Rowings.

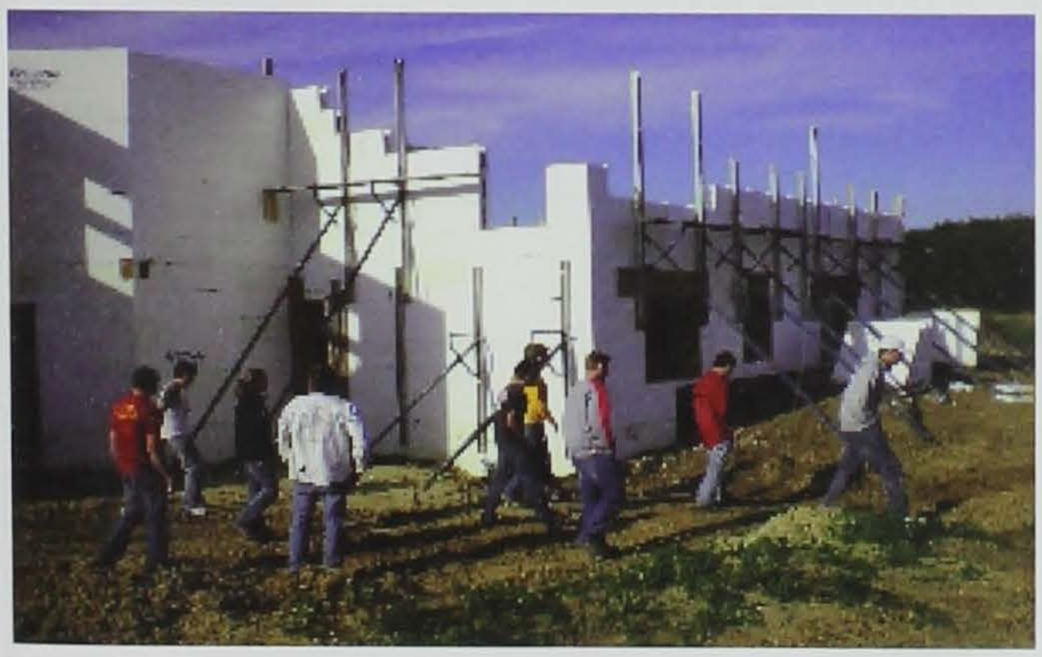
NATIONAL ASSOCIATION OF HOME BUILDERS (NAHB)

Iowa State University's National Association of Home Builders (NAHB) Student Chapter was formed in 2007. The ISU NAHB is open to anyone interested in learning about the home building industry. From construction and finance to marketing and sales, all aspects of the construction industry are addressed in the ISU Student Chapter. Partnering with local and state Home Builders, the ISU Student Chapter strives to educate students about the home building industry.

In January 2010, the ISU National Association of Home Builders Student Chapter was awarded the Shining Star Award for its work with the Ames Home Builders Association Women's Council and its help with ACCESS—Assault Care Center Extending Shelter & Support. Chapter members helped with a bathroom remodel along with other projects in the community. Dave Warning, ISU Chapter president, was presented the award by Lori Miner, 2009 Women's Council president.

Dave Warning, center, ISU Chapter president, accepts the Shining Star Award on behalf of the ISU National Association of Home Builders Student Chapter.

NATIONAL ASSOCIATION OF HOME BUILDERS
IOWA STATE
STUDENT CHAPTER



NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA)

The Iowa State University National Electrical Contractors Association (NECA) Student Chapter received its first charter in 1998 and was comprised of four Construction Engineering students. The organization has expanded from an exclusive Construction Engineering student organization to other related majors. Today, ISU NECA includes 12 active members from Construction Engineering, Electrical Engineering and Mechanical Engineering. The Chapter has enjoyed a growth over the past semester by increasing marketing and involvement on campus. Recent meetings have been attended by students from other majors, such as Chemical Engineering and Computer Engineering.

Along with normal monthly meetings and social events, ISU NECA competed in the National Electrical Contractors Association (NECA) and ELECTRI International (EI) Green Energy Challenge in 2009 and 2010. This event provides university students and faculty advisors with an engaging and fulfilling annual event that fosters meaningful interaction between students and NECA member companies.

The ISU NECA Student Chapter is advised by CCEE lecturers Jenny Baker and Beth Hartmann.

Jenny Baker

Beth Hartmann

Richard Ringwald, center, with cigar.

SIGMA LAMBDA CHI

The fundamental purpose of Sigma Lambda Chi is to provide recognition to outstanding students in construction curricula. Sigma Lambda Chi is a society that offers students the opportunity to be recognized locally and internationally for their academic accomplishments as construction majors. Objectives include:

- Rendering service to the major field of study. This is accomplished by active student participation in tasks and events that affect the construction program that houses the local Sigma Lambda Chi chapter.
- Developing good relations among campus, industry, and the public. Undertaking projects which further this purpose is expected of members of Sigma Lambda Chi.
- Recognizing outstanding professional individuals in construction. Sigma Lambda Chi has honorary membership classifications that can be bestowed upon individuals who deserve special recognition because of their contribution to construction education or some facet of the construction industry.

Sigma Lambda Chi was founded by a group of individuals in the Housing and Merchandising curriculum at Michigan State University who were interested in the enhancement of the construction profession. The first chapter, Alpha Chapter, was established on April 30, 1949. The Alpha Chapter developed the general guidelines by which the society is governed today.

Since that time, the society has grown to include 47 chapters across the United States and Australia, with a total individual membership of over 8,500.

Honorary members of Sigma Lambda Chi are top individuals from industry and academia who have demonstrated outstanding leadership in the construction industry or construction education, and who believe in the goals and ideals of Sigma Lambda Chi.

There are approximately 20 members in the Iowa State University chapter, which was established in 1970.

AGC Student Chapter Awards

1990-1991	AGC of America's Outstanding AGC Student Chapter of the Year
1993-1994	AGC of America's Outstanding AGC Student Chapter of the Year
1995-1996	AGC of America's Outstanding AGC Student Chapter of the Year
1996-1997	AGC of America's Outstanding AGC Student Chapter of the Year
2004-2005	AGC of America's Outstanding AGC Student Chapter of the Year
2005-2006	AGC of America's Outstanding AGC Student Chapter of the Year
2006-2007	AGC of America's Outstanding AGC Student Chapter of the Year *The AGC Outstanding Student Chapter Contest recognizes the top three student chapters for their dedication to community and public service projects. Each year, AGC honors student chapters for work performed for the benefit of the local community and its impact.*
2007-2008	AGC of America President's Commitment to Service Award *In three consecutive years, members of the Iowa State University AGC Student Chapter spent time helping to rebuild areas of Mississippi stricken by Hurricane Katrina. Because of this outstanding service and dedication, the chapter became the recipient of the first AGC of America President's Commitment to Service Award. This was the first time any student chapter had received this special recognition.*

Klinger Award for Outstanding Senior winners

1971-1972	John Detlefsen
1972-1973	Ray Flatland
1973-1974	Mike Petersen
1974-1975	Mark Herrick
1975-1976	Mike Carroll
1976-1977	Tom Noonan
1977-1978	Jim Bosshart
1978-1979	Michael Boucher
1979-1980	Jon Walker
1980-1981	Gerald Peterson
1981-1982	Mike Parsons
1982-1983	Sherm Welker
1984-1985	Mark Guetzko
1985-1986	Joel Peterson
1986-1987	Geoff Eastburn
1987-1988	Dave Ruggles
1988-1989	Saran White-Borchlewicz
1989-1990	Mark Wageman
1990-1991	Mike Espeset
1991-1992	Mark Gilbreath
1992-1993	Kyle Greenley
1993-1994	Tim Becker
1994-1995	Andrew Stapleton
1995-1996	Matt Miller
1996-1997	Troy Blizzard
1997-1998	Jason DeStigter
1998-1999	Nicole Buscher
1999-2000	Mike Callahan
2000-2001	Dale Schwager
2001-2002	Matthew Larson
2002-2003	Nicholas Obbink
2003-2004	Angela Guggisberg
2004-2005	Brian Wessels
2005-2006	Gina Riesberg Sunderman
2006-2007	Nels Overgaard
2007-2008	Brian Harry
2008-2009	Landon Streit
2009-2010	Clark Bowden

The W.A. Klinger Award for Outstanding Senior recognizes senior construction engineering students who best exemplify the qualities of scholarship and service in preparing for a career as a professional constructor.

ASC STUDENT COMPETITION AWARDS

Regionals

1994 (first competition)	1st	Construction Management
1997	1st	Commercial Building
1998	1st	Commercial Building
1999	1st	Design Build
2000	1st	Design Build
2001	1st	Design Build
2001	1st	Commercial Building
2001	3rd	Heavy Highway
2002	1st	Design Build
2002	3rd	Commercial Building
2002	3rd	Heavy Highway
2003 (February)	1st	Design Build
2003 (February)	1st	Commercial Building
2003 (February)	3rd	Heavy Highway
2003 (November)	2nd	Design Build
2003 (November)	2nd	Residential Build
2003 (November)	3rd	Heavy Highway
2004	1st	Heavy Highway
2004	1st	Design Build
2004	1st	Commercial Building
2005	1st	Design Build
2005	1st	Heavy Highway
2006	1st	Commercial Building
2006	1st	Design Build
2006	2nd	Heavy Highway
2007	1st	Commercial
2007	1st	Design Build
2007	1st	Residential
2007	2nd	Heavy Civil
2008	2nd	Commercial
2008	1st	Design Build
2008	2nd	Residential
2009	1st	Commercial
2009	1st	Design Build
2009	1st	Heavy Civil
2009	1st	Residential

Nationals

1998	2nd	Commercial CM
2000	1st	Design Build
2003	1st	Design Build
2005	2nd	Design Build
2006	4th	Design Build
2007	3rd	Design Build
2008	10th	Residential
2009	17th	Residential
2010	13th	Residential

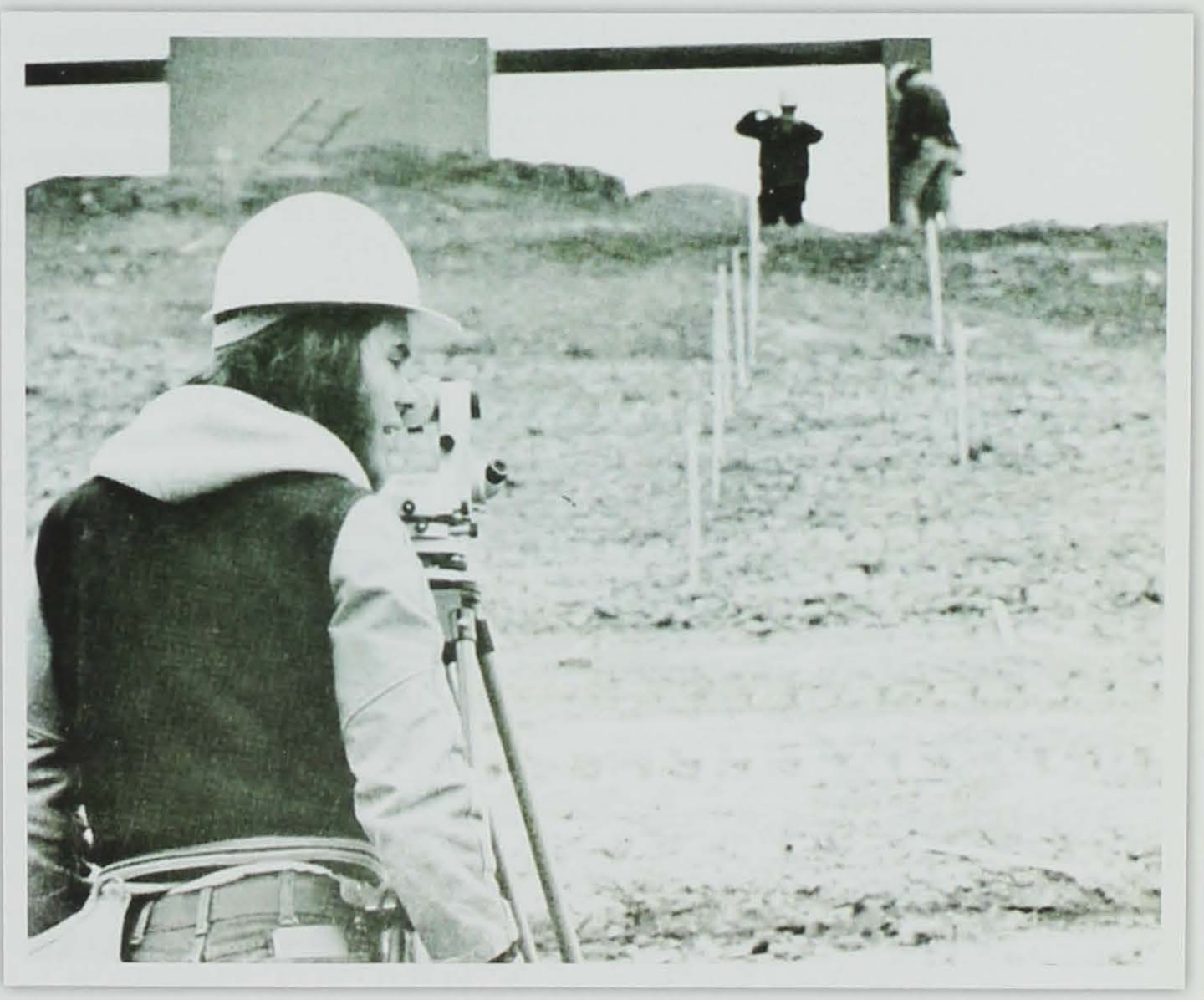
The Associated General Contractors of America (AGC) and the Associated Schools of Construction (ASC) joined forces to form the annual ASC-AGC National Student Competition (NSC).

The competition is held every spring in conjunction with the AGC Annual Convention, and competing teams are comprised of six students and one coach. The Iowa State University coach is Larry Cormicle.

Students from across the country participate in their Regional Competition first. Those who win their division qualify for the National Competition and an all-expense-paid trip to the AGC Annual Convention, along with complimentary convention registration.

6 CHAPTER SIX:

History of ConE Research



FACULTY RESEARCH SUMMARY

The following provides an overview of research and graduate-degree generation activities conducted by our Construction Engineering faculty. Because our program largely focused on undergraduate education for its first two-plus decades, ConE faculty research activities didn't ramp up until the mid-1980s. ConE's first MS graduate (Scott Higgins) graduated in 1985 and the group's first PhD degree recipient (David Harmelink) followed 10 years later in 1995. The hallmark impact metrics for ConE's research and graduate advising success during this 25-year period can be summarized as follows:

Cumulative MS recipients = 105
Cumulative PhD recipients = 10
Cumulative research funding = ~$18 million
Sponsor breakdown
- Federal = ~$4.5 million
- State = ~$5.5 million
- Military = ~$2.5 million
- University = ~$3 million
- Industry = ~$2.5 million

General characterizations of these research efforts are given on the following pages relative to each of the primary research sponsorship categories:

FEDERAL

National Cooperative Highway Administration and Strategic Highway Research Program

ConE currently has two research projects underway which could possibly yield high-level positive impacts on the highway construction industry. The first is being completed for the National Cooperative Highway Research Program (NCHRP) and involves the development of a guidebook for nighttime work-zone activities. The second is through the Strategic Highway Research Program (SHRP 2). This project involves a number of research partners across the United States and around the world. This project is investigating project management strategies for complex transportation projects. This will include development of a guidebook and training that will be given across the country.

National Science Foundation

Our first-ever NSF project conducted by ConE was a nationally prominent effort to develop an "alternative logic scheduling approach" for construction projects where complex projects have soft logic relationships between many of the activities. Having a probability associated with the logic similar to the probabilities associated with activity durations provides a more robust tool for scheduling. A follow-on project conducted by a grad student from Norway and funded by a large international contractor took the concept and built a simulation program that applied the basic concepts in a planning tool.

The construction industry worldwide has long suffered from the absence of efficient and effective management methodologies. With the advent of advanced computer systems, the utilization of information technology (IT) is a very logical progression of construction management systems. Therefore, our present research interests focus on the utilization of information technologies for two important aspects of the construction process of large-scale infrastructure systems, namely construction contract administration and the management of infrastructure planning decisions.

The first area mainly looks at the development of systems and methodologies that enable engineers to better manage contracts that govern their relationships with different project participants. In this area advanced artificial intelligence techniques, such as natural language processing, are utilized to aid engineers in comprehending and better utilizing construction contract documents. One of the developments made in this area, is a concept-relation extraction technique that utilizes shallow parsing algorithms to create a conceptualization of knowledge contained in contract documents. This tool will enable engineers to obtain natural language answers to questions they state in their own words about the construction contract. Another important set of tools that are under development in this field are construction legal decision support systems that

utilize artificial intelligence techniques, such as support vector machines and multi-agent systems, to model the progress and outcomes of construction disputes. An example of these tools is the Multi-Agent System for Construction Dispute Resolution (MAS-COR). MAS-COR is an agent-based system that aims at modeling legal discourse in construction disputes. A future direction of this research area is hoped to look at methods for automated generation of claim and dispute defense documents using techniques of natural language generation.

Department of Energy (i.e., Solar Decathlon)
Two of our faculty were involved with DOE's popular Solar Decathlon project, where our ConE students, as well as students from other departments and colleges at ISU, were exposed to a number of different issues that they would not have experienced without the benefit of this project. The Solar Decathlon project competition involved 20 U.S., and international, schools that each developed and built a house on the National Mall in Washington, D.C., that was completely powered by solar energy. Our ConE students worked in teams with students from other disciplines throughout the concept, development, design, construction, and competition phases. Through this hands-on activity, the ConE students gained tremendous experience that will undoubtedly stick with them throughout their careers.

STATE

Iowa Department of Transportation
One of our very first research projects was intended to develop a tool to reference "constructability" concepts for bridge construction projects in Iowa. This database was recognized with a second place in Zenith Corporation's International Master Innovator Contest. The system was developed for the Bridge Design Department at the Iowa DOT as a design aid to give bridge designers and detailers ideas for efficient and effective bridge design elements. The system brought construction information provided by bridge contractors back to the designers so improvements could be incorporated on future designs and projects.
Another early project conducted for the Iowa DOT developed a way to plan and schedule highway projects that are linear in nature. The modeling approach was called linear scheduling, and a systematic process was documented and applied to several types of projects. The linear scheduling project added an algorithm for determining the controlling sequences of work to determine where the controlling path flowed through the work. The technique was used to identify impacts from the floods of 1993 and allowed the Iowa DOT and the contractors to equitably settle delay issues and impact costs from the flood.

Iowa Legislative Services
The project developed and applied an inventory approach for assessing all state buildings in Iowa and building searchable databases of the vertical infrastructure by building system and component. The system was built to support decision-making, prioritization for funding requests and compiling deferred maintenance needs for the State of Iowa and the Iowa Legislature. The system developed provided the first tool that Iowa had for making rational funding decisions and addressing the vertical construction needs similar to the way they use road management systems for addressing bridge and highway needs.

Minnesota Department of Transportation
One of the our most recent projects, and probably even most influential, involved a collaborative effort through the Center for Transportation Studies at the University of Minnesota with a research team that included: PB World, SRF Consulting, the University of Colorado, Texas A&M, and Arizona State University. This project resulted in the creation of a new cost estimation and cost management process for the Minnesota Department of Transportation (MnDOT). This includes policies, tools for implementation, a technical reference manual, and training. These results are currently implemented throughout the MnDOT.

MILITARY

Construction Engineering Research Laboratory
Our ConE faculty worked with the USA-CERL lab to develop an estimating system for their Army Field Construction Support Operations. The system was a parametric estimating system that allowed accurate

predictions of the support troops required in the theater of operations to build and start up large military camps in remote locations throughout the world. The system was deployed by the military in operations in Central America, Eastern Europe and the Middle East to build temporary and more permanent facilities (housing, hospitals, maintenance and office).

UNIVERSITY

ISU-InTrans

Several of our projects have researched improvements in project delivery and planning systems. One such effort has recently resulted in the development of a project life-cycle integrated risk model that can be used to identify and mitigate potential hazards early in the project life-cycle. Another set of studies conducted reviews of design-build projects to identify means for improving the procurement and administration of publicly procured design-build projects. In consort with our InTrans Bridge Engineering Center, methods have also been studied to identify possible methods for accelerating bridge construction, which would then help to reduce disruption of traffic and improve worker safety.

INDUSTRY

Master Builders of Iowa

The Master Builders of Iowa funded one of our program's earliest projects as we started our research program in construction engineering in the mid- to late-1960s. While they may not have fully understood where their involvement might lead, MBI was consistently supportive of initiatives to improve the industry both in Iowa and nationwide.

Our first study was a survey to estimate and address the needs for vertical infrastructure and funding mechanisms that might address the issues similar to the gas tax for highways. As noted above, this topic also received attention from, and funding support by, our own Iowa Legislature. Our study examined a few categories of public buildings and the funding mechanisms and limitations for keeping our buildings (we coined the term vertical infrastructure) in useful service. As this study was completed, the results were picked up by The *Des Moines Register's* Dave Yepsen and soon the Legislature began to address some of the ideas raised for addressing the issue. Needless to say, the leaders of MBI fanned the issue in the Legislature and significant progress to address the issues was made in the next decade. The only remaining issue is for the Legislature to set the voting percentage for passing a bond issue as a simple majority rather than the current super majority.

Electrical Contracting Foundation and Electri' 21

Several studies were conducted for the ECF over a few years. The studies included Total Quality Management, Material and Tool Control, Partnering, Design-Build Guidelines for Electrical Contractors, Executive Leadership Development for CEO's of Electrical Contracting firms, and Strategic Planning for Electrical Contractors. Each of these studies identified critical issues or areas for improving the operations of NECA members. From each study there were numerous workshops and training programs that were delivered across the country. The NECA Electrical Contractors in Iowa have fully supported and embraced many of the research concepts and many firms have adopted the elements of Total Quality Management as the core of their continuous improvement processes.

Another set of projects was completed on behalf of specialty contracting foundations, particularly the Electri' 21 (now Electri' International), where these efforts varied from studying Tool and Material Control Systems to developing a strategic planning model. One key outcome of these studies was the publication of a manual on "Recovering Overhead Burden for Mechanical Contractors," which was subsequently regarded as a critical publication to help mechanical contractors recover the overhead rates they have with their shop process.

Construction Industry Institute

A study on Project Objective setting was one of the first projects undertaken by CII in its evolution as a construction research organization. This study identified the critical steps in defining and establishing scope control for large capital projects. The study findings were later developed into

a foundational training course used for owners, designers and contractors of large projects. The course is built around the foundational components of project objectives, the design basis, early project control systems, managing uncertainty and risk, and developing leaders, teams and skills.

Two other projects for CII dealt with the development of the construction workforce. One identified the issues and potential solutions associated with the craft workforce and the other one dealt with the professional engineering workforce. These projects led to further work and the development of industry association solutions for these issues. Another CII-funded project examined strategies for managing small capital projects. The involved research team put together a suite of tools and suggestions for CII clients to assist their planning and execution of small projects primarily in an active plant setting. A short course was also developed from this project that was then taught several times. The overall impact to an average CII company plant site was estimated to have been approximately $1 million per year based on 4 percent savings we documented in the research and an average $25 million budget for most CII company production facilities.

Associated General Contractors (AGC)

In 1991, a representative of AT&T visited the curriculum and recommended we change the orientation of our instruction in regard to promoting quality, using a rather new approach known as Total Quality Management (TQM) that was based on, and promoted internationally, through the teachings of Dr. W. Edwards Deming. Dr. Deming had introduced then-modern process improvement techniques to Japanese manufacturers. Because of the success of this methodology in Japan, he was called upon to introduce those methods to American manufacturers.

Our efforts were aimed at investigating his methodology and adapting it to the construction industry. Our effort was assisted by AT&T, and contractors who had already started to implement many of these quality management techniques. Dr. Deming's focus was on improving processes using a host of techniques, including: defining customer expectations, examining key processes, inviting employee input on improving those processes, employing statistics to monitor progress, monitoring customer satisfaction, developing a strong sense of teamwork within the organization, and exercising good leadership.

After a great deal of research and accumulating a wealth of information on how others in the U.S. were using Dr. Deming's methodology, Jerry Chase and Mark Federle hosted a series of workshops for the Construction Industry to introduce contractors and owners to the methodology, and to discuss how it could be employed in construction. This was followed by an invitation and funding from the Associated General Contractors (AGC) to write a manual, which Jerry Chase did, entitled: "Implementing TQM in a Construction Company." Interestingly, and from a historically significant perspective, this was the first textbook published by an ISU ConE faculty member, being published by AGC in 1993. This text and short course offerings were then used to deliver a recurring series of Total Quality Management seminars to contractors and to our students. In each case, these seminars focused on helping contractors improve their efforts. Indeed, these along with implementing quality management (working with a major Midwest contractor and the state DOT) and sharing best practices even resulted in the development of an intra- and extra-net approach where the focus has always been on helping contractors improve their systems and processes.

Water Design-Build Council

Our recent Water Design-Build Council project was completed with the University of New Mexico and the University of Colorado. This project involved comparing the delivery of municipal water and wastewater facilities through design-bid-build and design-build. During this project, the team was also able to compare different types of contracts, e.g. lump sum vs. guaranteed maximum price (GMP). This information is being distributed to owners, designers, and contractors to help inform everyone of the outcomes of past projects for making decisions about future projects.

STUDENT RESEARCH LISTINGS

Name	Degree	Grad. Date	Component/ Thesis/ Dissertation	Title	Major Professor
Higgins, Scott W.	MS	1985 S	Thesis	Project management information systems simulation	Jerald Rounds
Nelson, Mark G.	MS	1988 SS	Non-Thesis	Project objective-setting by contractors	James Rowings
Wagner, Mark P.	MS	1989 S	Thesis	ALST: Alternative logic scheduling theory	James Rowings/ Gerald Chase (Co-majors)
Rahbar, Faramarz Fred	MS	1989 SS	Non-Thesis	Automation of scheduling process	James Rowings
Anantharaj, Yashavanth	MS	1989 F	Thesis	Management techniques for low-cost housing projects	Janet Yates
Bachh, Mohd Muneer	MS	1989 F	Non-Thesis	Application of bar coding in construction	Edward Jaselskis
Kaspar, Steven L.	MS	1989 F	Non-Thesis	A constructability analysis of cable-stayed bridges	James Rowings
Moreno, Carlos A.	MS	1989 F	Non-Thesis	A pilot study for achieving project success in developing countries	James Rowings
Guhthakurta, Swagata	MS	1989 F	Non-Thesis	Labor productivity in developing countries	Janet Yates
Badawi, Essam Abd El-Hamid	MS	1990 S	Non-Thesis	Mass-housing approach to solve the housing shortage in Arab countries	Edward Jaselskis
Hubers, Michael J.	MS	1990 SS	Non-Thesis	Constructability issues from a mechanical perspective	Janet Yates
Njos, Steven D.	MS	1990 SS	Non-Thesis	Competition in the US construction industry in the Year 2000: "An organizational outlook"	Janet Yates
Harmelink, David J.	MS	1990 F	Non-Thesis	Iowa's Vertical Infrastructure	James Rowings
Manning, Christopher D.	MS	1990 F	Non-Thesis	Process improvement in the construction industry	Gerald Chase
Mukherjee, Subhransu	MS	1990 F	Thesis	Anatomy of the construction industry: competitive in the Year 2000	Janet Yates
Pidaparti, Surya	MS	1991	Thesis		James Rowings
Vardhan, Chandrika H.	MS	1991 S	Thesis	Constructability - A holistic approach for creating architectural buildings	Janet Yates

DeVany, Thomas S.	MS	1991 F	Thesis	Career attitudes of construction craftworkers	James Rowings
Recarte Suazo, Guillermo A.	MS	1991 F	Thesis	Construction safety in Honduras	Edward Jaselskis
Pallegar, Nareskhumar K.	MS	1992 S	Non-Thesis	A computerized conceptual estimating system	Mark Federle
Sahin, Cem	MS	1992 SS	Thesis	An alternative site layout technique	James Rowings
Sonmez, Rifat	MS	1992 SS	Thesis	A data-based activity duration forecast system for construction projects	James Rowings
Asif, Mohammad	MS	1992 F	Non-Thesis	Computer application to construction in Pakistan	Edward Jaselskis
Rodriguez, Yvan A.	MS	1992 F	Thesis	Automated timekeeping and project information systems using bar coding techniques	Edward Jaselskis
Behling, Kevin R.	MS	1993 S	Thesis	Organizing the owner for capital projects: a rational approach	James Rowings
Virdi, Gurvirinder S.	MS	1993 S	Non-Thesis	Feasibility of robotic soil sampling on hazardous waste sites	Edward Jaselskis
Orgler, Michael S.	MS	1993 SS	Non-Thesis	The feasibility and development of a construction and demolition waste recycling facility for Central Iowa	Mark Federle
Rajan, Salim G. H.	MS	1993 F	Non-Thesis	Considerations for developing and construction of pretreatment of water treatment systems using a self-help approach in resource constrained countries	Edward Jaselskis
Roitman, Gad	MS	1993 F	Thesis	Building maintenance management	James Rowings
Tirimanne, Anslem P. R.	MS	1994 S	Thesis	Characteristics of successful management information for small, medium, and large construction companies	Edward Jaselskis
Wu, Daniel (Sheng-Jer)	MS	1994 F	Non-Thesis	Development of international construction industry technology indices	Edward Jaselskis
Erviritina, Justina C.	MS	1995 S	Thesis	An employee survey as an assessment of employee attitude towards implementing total quality management	Mark Federle
Ladson, Abie L.	MS	1995 S	Non-Thesis	Determining pertinent information for US contractors before venturing overseas	Edward Jaselskis

Birkland, Sara A.	MS	1995 F	Thesis	An assessment improving employee attitudes and job satisfaction through total quality management implementation	Mark Federle
Harmelink, David J.	PhD	1995 F	Dissertation	Linear scheduling model: the development of a linear scheduling model with micro computer applications for highway construction project	James Rowings
Dedolph, Jr., Carter T.	MS	1996 S	Thesis	Trusscore: an innovative wall system for the construction industry	Edward Jaselskis
Lin, Mary E.	MS	1996 S	Thesis	Owner perception of construction management in Iowa public sector construction projects	James Rowings
McCollough, Laura A.	MS	1996 S	Thesis	A benchmark study for the Iowa Department of Transportation	Gerald Chase
Naresh, Arcot L.	MS	1996 S	Thesis	Optimizing guidewall construction using a mobile cofferdam through simulation	Charles Jahren
Weddall, Robert C.	MS	1996 S	Thesis	Using the Myers-Briggs type indicator to understand key managers in the construction industry	Mark Federle
Busch, Richard M.	MS	1996 SS	Non-Thesis	An analysis of the different costing structures between bidding federal government contracts and private sector contracts	Mark Federle
Carlson, Eric L.	MS	1996 SS	Thesis	Development of performance measures and benchmark data for the Iowa Department of Transportation construction offices	Charles Jahren
Sonnenberg, Bradley R.	MS	1996 SS	Thesis	Organizational position within construction companies and perceived effectiveness of jobsite quality-management implementation	James Rowings
Tilford, Kelly R.	MS	1996 SS	Non-Thesis	An examination of methods to successfully implement new technologies by the environmental remediation contractor	Edward Jaselskis
Sonmez, Rifat	PhD	1996 SS	Dissertation	Construction labor productivity modeling with neural networks and regression analysis	James Rowings
Elliott, Lance A.	MS	1996 F	Thesis	Improving field data collection and reporting for Iowa DOT construction projects	Charles Jahren

Cawley, Bryan R.	MS	1997 F	Thesis	Performance of cold-in-place asphalt recycled roads in the State of Iowa	Charles Jahren
Sirotiak, Todd L.	MS	1997 F	Non-Thesis	Motivational management, value engineering, claim analysis, automation	Mark Federle
Rahbar, Faramarz Fred	PhD	1997 F	Dissertation	Computer aided parametric-planning (CAPP)	James Rowings
Nelson, Christopher J.	MS	1998 S	Non-Thesis	Determination of best practices in operations for Weitz construction	Mark Federle
Pigneri, Steven C.	MS	1998 S	Non-Thesis		Mark Federle
Ellsworth, Brian J.	MS	1998 SS	Thesis	Subgrade stability of cold-in-place recycled asphalt projects	Charles Jahren
Al-Hammadi, Ahmed Mohammed	MS	1998 F	Thesis	Thin maintenance surface guidelines for local roads.	Charles Jahren
Celik, Serhan	MS	1998 F	Thesis	Short term performance evaluation of thin maintenance surfaces in the State of Iowa	Charles Jahren
Tan, Khim-Leong Lawrence	MS	1998 F	Thesis	Prototype construction and field tests of the Microwave Asphalt Density Sensor	Charles Jahren
Stephan, Branden M.	MS	1999 S	Thesis	Innovative technologies for enhanced transportation infrastructure assessment	Edward Jaselskis
Yeong, Siew-Chin	MS	1999 S	Thesis	The effect of human factors applied to simulation and resource optimization using computer simulation	Charles Jahren
Fagen, Matthew E.	MS	1999 SS	Thesis	Construction and testing of a low volume road bridge alternative: Steel beam precast units	Gary Smith
Babcock, Karmyn E.	MS	2000 S	Thesis	Project specific websites to improve communication on jobsites	Mark Federle
Pribadi, Iwan P.	MS	2000 S	Thesis	Workmanship quality for concrete construction	Edward Jaselskis
Stewart, Jeffrey A.	MS	2000 S	Thesis	Investigation of construction applications for thermoset composite scrap material	Edward Jaselskis
Ehmer, Judith M.	MS	2000 S	Thesis	Construction site safety from a project management perspective	Edward Jaselskis
Lau, Dung Hing (Gabriel)	MS	2000 S	Thesis	Short term performance evaluation of thin maintenance surfaces on US 69 in Iowa	Charles Jahren
Li, Chun	MS	2000 S	Thesis	Developing a hypertext-based electronic reference library for a public transportation agency	Charles Jahren

Quintero, Hernando	MS	2000 S	Thesis	Thin maintenance surfaces performance evaluation	Charles Jahren
Jiang, Dongying	MS	2001 S	Thesis	Developing a facility management system for vertical infrastructure of Iowa	James Rowings
Cetin, Ozdemir	MS	2001 SS	Thesis	Improvements in the hypertext-based electronic reference library for a public transportation agency	Charles Jahren
Elmisalami, Tarek	MS	2001 SS	Thesis	Radio frequency identification (RFID): applications for the construction industry	Edward Jaselskis
Gao, Zhili	MS	2001 SS	Thesis	The indicators of small project success	Edward Jaselskis
Tee, Syuin-Chet	MS	2001 SS	Thesis	Scheduling templates for a highway reconstruction project	Charles Jahren
Elmisalami, Tarek	PhD	2001 F	Dissertation	Developing a multi-attribute utility model (MAUM) for selecting information technologies in the construction industry	Edward Jaselskis
Patterson, Cynthia K.	MS	2001 F	Thesis	The emerging technology of laser scanning	Edward Jaselskis
Jelinek, Aldona M.	MS	2002 S	Thesis	Resource and cost loading of an urban highway project	Charles Jahren
Li, Lifeng	MS	2002 SS	Thesis	Maintenance of a hypertext-based electronic reference library for a public transportation agency.	Russell Walters
Li, Jingxi	MS	2002 S	Thesis	A process for scheduling urban interchange reconstruction.	Charles Jahren
Beyer, Jamie	MS	2002 F	Thesis	Life cycle analysis of stationary fuel cells.	Russell Walters
Chen, Dong	MS	2002 F	Thesis	Construction scheduling for urban freeway renewal projects a case study.	Charles Jahren
Leek, Melissa	MS	2002 F	Thesis	Scheduling utility conflicts for a highway reconstruction project.	Charles Jahren
McArtor, Michael	MS	2002 F	Thesis	Field incentive systems for electrical contractors	Russell Walters
Frank, Stephen C.	MS	2003 1	Thesis	Non-Thesis	Charles Jahren
Arbelaez, Mauricio	MS	2003 F	Thesis	Development of an Effective Supervisory Training Course for Hispanic Construction Craft Workers	Edward Jaselskis
Thorius, Jacob	MS	2003 F	Thesis	Costs for Maintaining Bituminous Roads, Surfacing Options, and Benefits of Bituminous Roads	Charles Jahren

Strawn, Diane	MS	2004	Non-Thesis	Materials and Construction Optimization of Durable Concrete	Edward Jaselskis
Chung, Jin Wook	MS	2004 S	Thesis	As-Built Schedule Comparison Between Urban and Rural Bridge Construction Projects	Charles Jahren
Kaewmoracharoen, Manop	MS	2004 S	Thesis	Development of 3D Web-Based Highway Specification	Edward Jaselskis
Rukashaza-Mukome, Mary	MS	2004 S	Thesis	Aggregate Roads Maintenance and Cost: Case Study of State of Minnesota	Charles Jahren
Ankanahalli Shivaramu, Kiran	MS	2004 1	Thesis	Retrospective of a Hypertext-based Electronic Reference Library for a Public Transportation Agency	Russell Walters
Gao, Zhili	PhD	2004 1	Dissertation	The Indicators of Small Project Success	Edward Jaselskis
Makarla, Deepak	MS	2004 1	Thesis	Specialty Construction on Urban Highways	Charles Jahren
Canales, Augusto	PhD	2004 F	Dissertation	Developing Effective Integration Between American Supervisors and Hispanic Craft Workers in Construction	Edward Jaselskis
Kim, Seong Hoon	MS	2004 F	Thesis	Investigation of Producation and Schedule Improvement Methods for Urban Interchange Reconstruction Projects	Charles Jahren
Meco, Tolga	MS	2004 F	Non-Thesis	Sustainable Secondary Roads in Iowa: Factors to Consider in Upgrade, Maintenance, and Abandonment Decisions for Developing Sustainable Secondary Road Systems	Kelly Strong
Nelson, James S.	MS	2005 S	Non-Thesis	Construction Inspection Using Remote Monitoring Systems: East 12th Street over I-235 Test Application	Charles Jahren
Vazquez, Edna	MS	2005 S	Thesis	Developing an Effective Construction Training Program for American Supervisors with Hispanic Craft Workers	Edward Jaselskis
Zheng, Zhong	MS	2005 S	Non-Thesis		Russell Walters
Plymesser, Cliff	MS	2005 1	Thesis	Thin Maintenance Surfaces for Municipalities	Charles Jahren
Raadt, Nolan	MS	2005	Thesis	An Assessment of the Effectiveness of Design-Build Project Delivery on the Minnesota Department of Transportation's ROC 52 Project	Kelly Strong

Williams, Nicholas	MS	2005	Non-Thesis	A Comparison of GPS Machine Control and Assist Systems used for Earthmoving and Marine Construction Applications	Charles Jahren
Chen, Dong	PhD	2006	Dissertation	Evaluation of Long-Term Performance of Cold In-Place Recycled Asphalt Roads	Charles Jahren
Hagberg, Nathaniel	MS	2006	Thesis	Key Attributes for Successful Leadership in Construction: Project Manager and Superintendents	Kelly Strong
Halloush, Ghassan	MS	2006	Non-Thesis	Field Data Acquisition Technologies for Iowa Transportation Agencies	Edward Jaselskis/Tom Maze
Jestrab, Eric	MS	2006	Thesis	An Advanced Grade Control Systems Class and Machine Control File	Chuck Jahren
Tometich, James	MS	2006	Non-Thesis	Effective Contracting Techniques: A Look at the Effectiveness of Innovative and Traditional Contracting Methods	Kelly Strong
Bisani, Mayur	MS	2007	Non-Thesis	Integration and Optimization of Construction Management Decisions in Work Zone Management of a Four-Lane Highway using Genetic Algorithms	Amr Kandil
McWhirt, Darren	MS	2007	Thesis	A Comparison of Design-bid-Build Project Delivery Methods on Military Construction Projects	Edward Jaselskis/Kelly Strong
Landau, Cole	MS	2007	Thesis	Transportation Construction Administration	Charles Jahren/ Kelly Strong
Seeboo, Asish	MS	2008	Thesis	Proposed Highway Asset Management Framework with an Emphasis on Economic Impact Analysis	Amr Kandil
Sirotiak, Todd	PhD	2008	Dissertation	The Effect of Problem/Project-Based Learning on a Desired Skill Set for Construction Professionals	Russell Walters
Al Qady, Mohammed	MS	2008	Thesis	Concept Relation Extraction Using Natural Language Processing - The CRISP Technique	Amr Kandil
Kaewmoracharoen, Manop	Ph.D.	2009	Dissertation	Feasibility of Visualization and Simulation Applications to Improve Work Zone Safety	Kelly Strong
McDermott, Cory	MS	2009	Thesis	The Future of the Construction Industry and the Implication for Construction Project Management and Education	Edward Jaselskis

CHAPTER SEVEN:

Hall of Fame

Tom Jellinger
Ken Lewis
W.A. Klinger

HALL OF FAME

Induction into the Construction Engineering Hall of Fame recognizes significant contributions made by individuals to the construction industry and/or the Iowa State University Construction Engineering program over their career. Hall of Fame members are individuals who have left a significant mark on the Construction Engineering program, the construction industry, and the community because of consistent service and achievement.

Nominations can be made by alumni of the Construction Engineering program, current or past Construction Engineering faculty, or by the Hall of Fame Subcommittee. To be considered for induction into the Construction Engineering Hall of Fame, nominees must meet at least one of the following criteria:

- Be an alumnus of the Construction Engineering program.
- Be a current or former faculty member.
- Be an individual who has contributed to the success of the Construction Engineering program through his or her service and support.

The Hall of Fame display is located in a prominent location on the east side of the corridor from the north entrance to the Town Engineering Building adjacent to the Jellinger Laboratory entryway.

To commemorate the 50th Anniversary of the Construction Engineering department, the Hall of Fame will honor its first three inductees: Tom Jellinger, Ken Lewis and W.A. Klinger. There will be one to two inductees each year thereafter.

50th
1960 - 2010
CONSTRUCTION ENGINEERING
IOWA STATE UNIVERSITY

A computerized rendering of what the Construction Engineering Hall of Fame display will look like upon completion.

Construction Engineering Hall of Fame

The Iowa State University Construction Engineering program was established in 1960 to educate engineers and provide them with the skills to be effective leaders in the construction industry. Since that beginning, individuals associated with the program have left a significant mark on the Construction Engineering program, the construction industry and their community through their service and achievement. We are proud to recognize these individuals.

IOWA STATE UNIVERSITY

50th
CONSTRUCTION ENGINEERING

Hall of Fame Inaugural Inductee:

TOM JELLINGER

Tom Jellinger was born in Seaton, Illinois, in 1923. He received an Architectural Engineering degree from the University of Illinois in 1948 and a Master's degree in Industrial Engineering from Iowa State University in 1963. Tom started his professional career in Cincinnati, Ohio, where he was an Associated General Contractors of America (AGC) contractor, a registered engineer and a licensed architect. During his last five years in Ohio, he owned and operated a private practice.

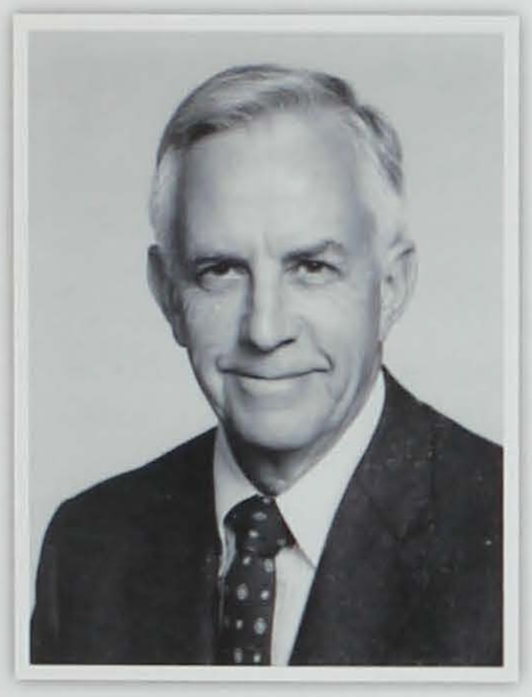
In 1960, Tom was appointed Assistant Professor of Architecture and Architectural Engineering at Iowa State. Tom initially taught courses in Methods and Materials in Construction, Estimating and Supervision, and Specifications. These three courses, combined with Tom's extensive background and experience, a proposal from Bill Klinger, and generous funding from Master Builders of Iowa gave rise to the Construction Engineering curriculum at Iowa State. Among the innovations that came about under Tom's leadership was the establishment of the first Industry Advisory Council. Tom stepped down from the position of Professor-in-Charge in 1978 and continued to serve on the faculty until 1981. At the time of his retirement, emeritus status was conferred upon Tom as a full professor in Construction Engineering.

Tom guided the ConE curriculum from a single graduate in 1963 to 108 graduates and a total enrollment of 329 at his retirement in 1981. Under Tom's leadership, the program gained Accreditation Board for Engineering and Technology (ABET) accreditation in 1976. Tom's efforts resulted in Iowa State having a nationally recognized Construction Engineering program.

50th 1960 - 2010
CONSTRUCTION ENGINEERING
IOWA STATE UNIVERSITY

Hall of Fame Inaugural Inductee:

KEN LEWIS



Ken Lewis was born in Topeka, Kansas, in 1918. He received a Liberal Arts degree from the University of Kansas in 1941. He was a member of the United States Army from 1941 to 1946, serving in the European Theater during World War II and was a member of the Kansas National Guard from 1946 to 1953, retiring with the rank of captain.

In 1955, Ken became the General Manager of the Master Builders of Iowa (MBI). Ken fully supported the belief of Bill Klinger that Construction Engineering, distinguished from Civil Engineering and Architecture, deserved its own identity and curriculum which combined the fundamentals of engineering, business and construction.

Ken enlisted the support of the MBI membership and, along with Bill Klinger, began discussions with Iowa State University that culminated with the school's acceptance of the idea and the establishment of the Construction Engineering curriculum. Under Ken's leadership, MBI agreed to fund a major portion of the Construction Engineering curriculum for its initial five years and a subsequent four years. As the program developed, Ken acted as a liaison to the University, constantly expressing assurance of the industry's need for and support of what is now the Construction Engineering program. Ken retired as General Manager of MBI in 1984.

Hall of Fame Inaugural Inductee:

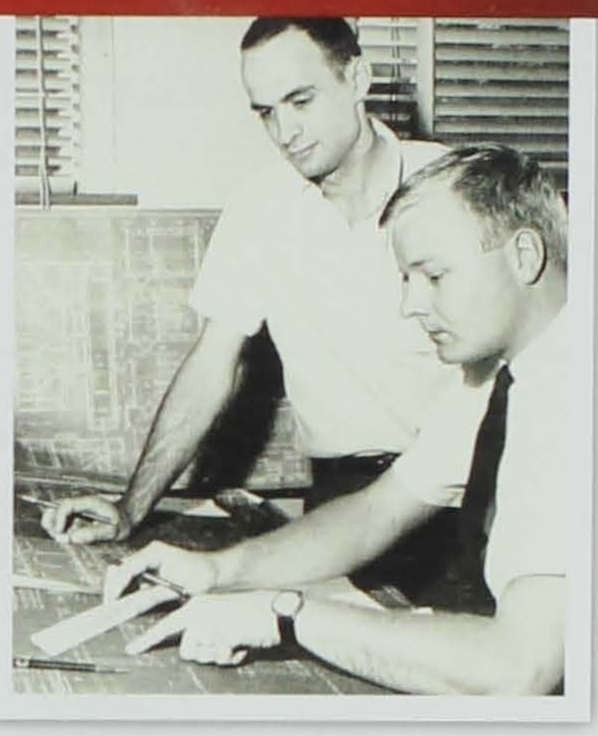
W.A. KLINGER

W.A. "Bill" Klinger was born in Milwaukee, Wisconsin, in 1888. Bill received a Civil Engineering degree from the University of Wisconsin in 1910 and was an instructor in the College of Engineering there until 1912. In 1919 he formed W.A. Klinger, Inc., a general contractor in Sioux City, Iowa, which still bears his name.

In 1936 and 1937, Bill served as the president of the Associated General Contractors of America (AGC). He became the first chairman of the Education Committee of the AGC in 1949 and continued in that role for 12 years. In 1956, he published an article in the AGC's *Constructor* magazine calling for the establishment of a Construction Engineering curriculum that combined civil or architectural engineering training with cost accounting, estimating, law, labor relations, and construction plans and procedures. Bill traveled extensively to several universities, including Iowa State, to advise them on the concept and courses for a Construction Engineering curriculum. As chairman of the Master Builders of Iowa education committee, he enlisted the support of industry and persuaded Iowa State University president James H. Hilton to launch the Construction Engineering curriculum in 1960. Bill also served as chairman of the committee that selected Tom Jellinger as the first head of the Construction Engineering curriculum.

Bill's wife, Catherine, bequeathed money in her will to establish the W.A. Klinger Teaching Professorship, which was established in 2003.

50th 1960 - 2010
CONSTRUCTION ENGINEERING
IOWA STATE UNIVERSITY



8 CHAPTER EIGHT:

Tom & Ro Jellinger Laboratory and Town Engineering Building

Computerized renderings of the Jellinger Laboratory. Revit images prepared by: Robert Cotan, Junior, ConE.

TOM & RO JELLINGER LABORATORY

by Larry Cormicle

Background Proposal of the Jellinger Laboratory

The effort to acknowledge the contributions of Tom Jellinger began as an idea from an alumnus of the Construction Engineering program, and permeated to a group of Denver-area alumni who were impacted greatly by the support of Mr. Jellinger and his late wife, Ro.

Once an initial gift of $100,000 was realized, the department set into action several steps to create a fund to honor the Jellingers to coincide with the 50th anniversary celebration of the Construction Engineering program. Shortly thereafter, a volunteer committee was established and an impact goal set.

As a result of this effort, the program in Construction Engineering, and the Department of Civil, Construction, and Environmental Engineering will enhance the Construction Engineering program by creating the Tom and Ro Jellinger Laboratory.

This laboratory will benefit undergraduate students and industry by providing virtual site tours, BIM modeling, and a central and flexible learning environment for the senior-level design course.

The Design of the Jellinger Laboratory

During the 2009 fall semester, our capstone students in Con E 487/488 were surveyed and the design of this capstone lab is based largely on their feedback.

As the instructor for Con E 487 for six semesters and now Con E 488 for two semesters, I believe we have designed a capstone classroom/lab that will meet our enrollment growth needs and especially will meet the daily needs of our students.

One of the biggest needs that our current and past capstone students have expressed is the need for enough computers (PCs) to allow everyone to work all at once without having to leave the capstone classroom for another computer lab. With our projected enrollment in the two ConE capstone courses (Con E 487 and Con E 488) at 50 for the spring 2011 semester, this new capstone classroom has 49 PCs for our students.

The nine team tables provide an open office environment for up to nine teams to work. Located around the perimeter of the room are nine wall-mounted 42-inch LCD displays that each team can use to huddle around for team collaboration. The instructor can also send his or her PC video signal to the nine LCD monitors. All tables are mounted on casters as well as all 68 chairs. So the students on each team have a large table with extra chairs so they can leave chairs at the PCs and also then move to the tables.

The combined capstone courses CE 485/Con E 487 will have a total combined enrollment of approximately 90-95 students (this is split into two sections of approximately 45-47 students each). This new Jellinger Lab allows the two sections of CE 485/Con E 487 to meet with everyone staying in the classroom to work.

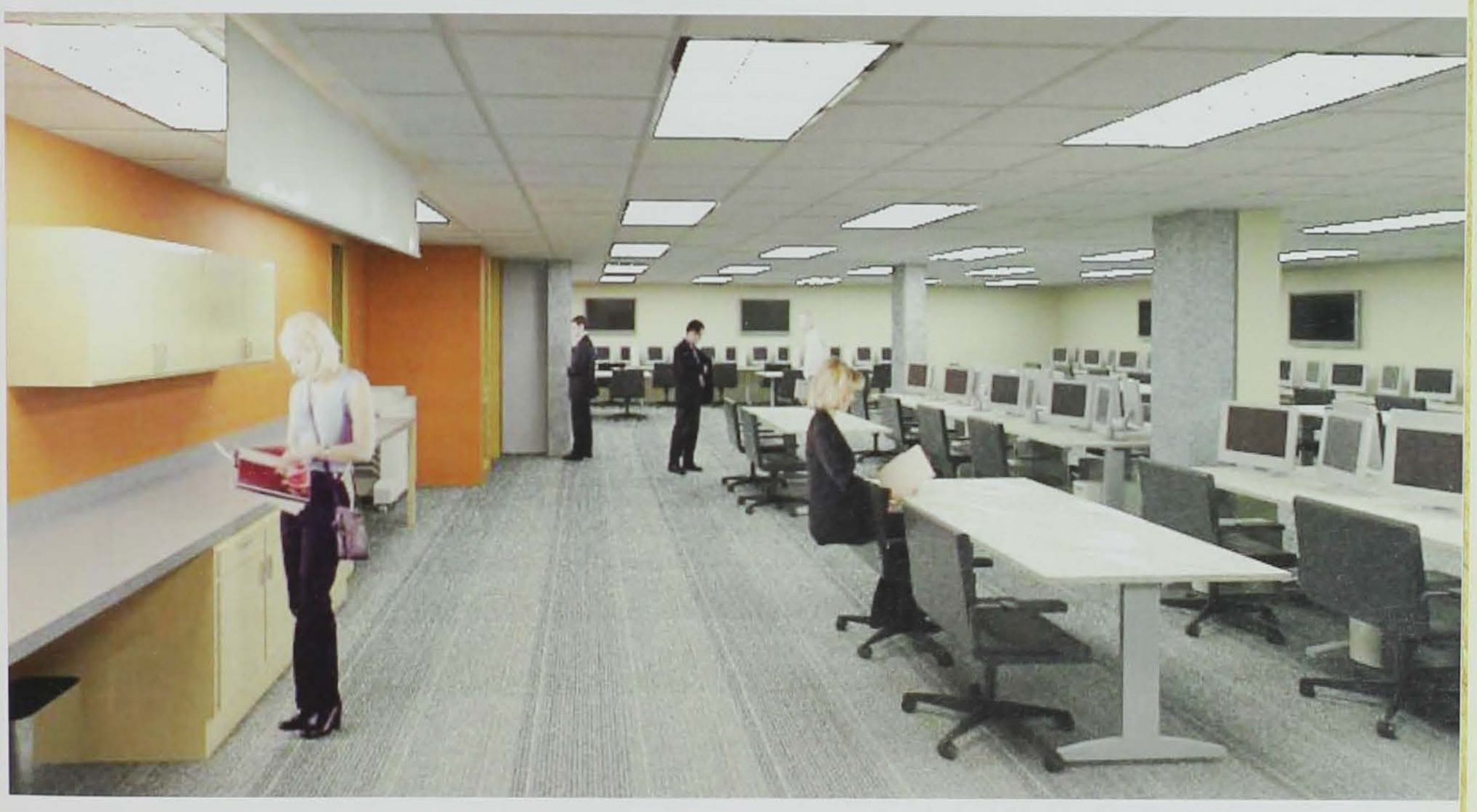
Currently, our capstone classroom has 13 PCs in 210 Town and 10 PCs in 220 Town. These 23 PCs

are shared currently by approximately 90 students in the CE 485/Con E 487 combined class. This semester we are so short on PCs that our students cannot work during class hours on their final projects. They wait until evenings and weekends just to sit at a PC work station.

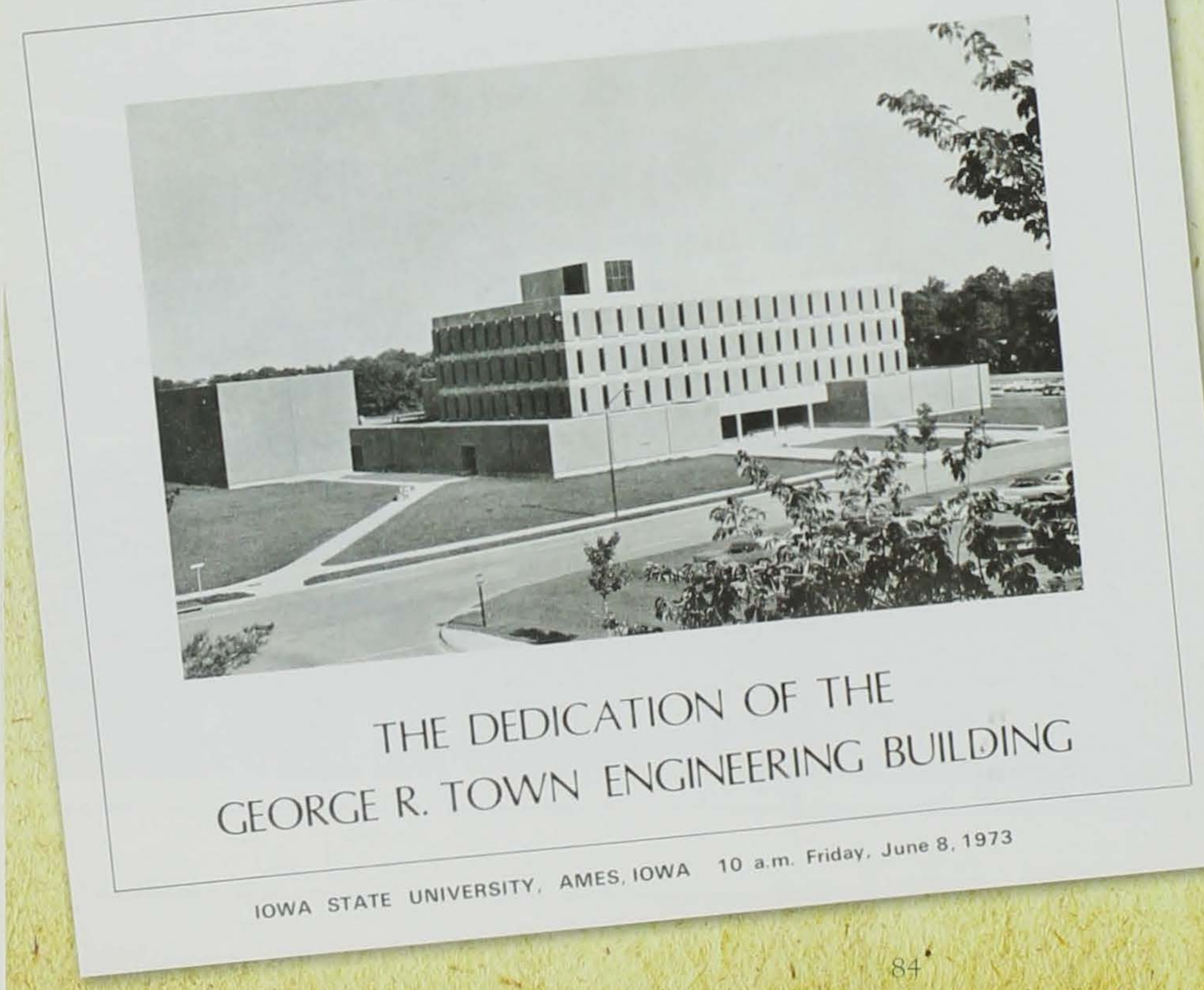
What is also not shown on the renderings is the large double-sided whiteboard on casters so the instructor can quickly adjust locations based on class sizes. As we're composing this Construction Engineering program history book, the laboratory is under construction. It is set to be completed by August 7, 2010, for use in the fall 2010 school year.

In summary, the new Jellinger Lab has the quantity of PCs, and the team environments as well, for three capstone courses to function at their best without the shortcomings of the existing capstone classrooms.

Tom and Ro Jellinger



The Town Engineering Building was named in honor of George R. Town, professor and dean of the College of Engineering from 1959 to 1970. Construction of the building started in 1971 and was finished in 1973.



9 CHAPTER NINE:

The Golden Anniversary *Erector Set*

The *Erector Set* was born...

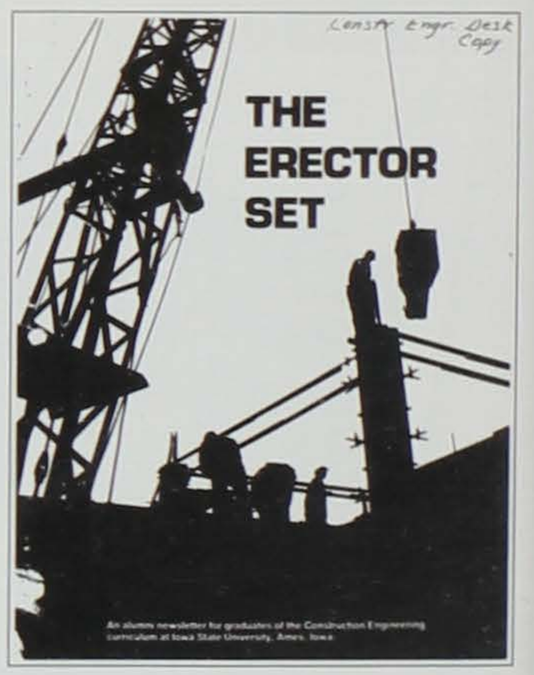
Written by Charles Jahren

As students graduated from the ISU Construction Engineering program, they continued to come back to ISU to recruit other students. Graduates felt the urge to stay connected to the program, resulting in the first-ever *Erector Set*, which was published in the summer of 1969. The program continued to grow, and by 1972 students and faculty had their own building, the Town Engineering Building. Aside from Construction Engineering, Civil and Aerospace Engineering also occupied Town Engineering.

THE
ERECTOR
SET

Volume 1 Number 1 July 22, 1969

An alumni newsletter for graduates of the Construction curriculum at Iowa State University, Ames, Iowa.



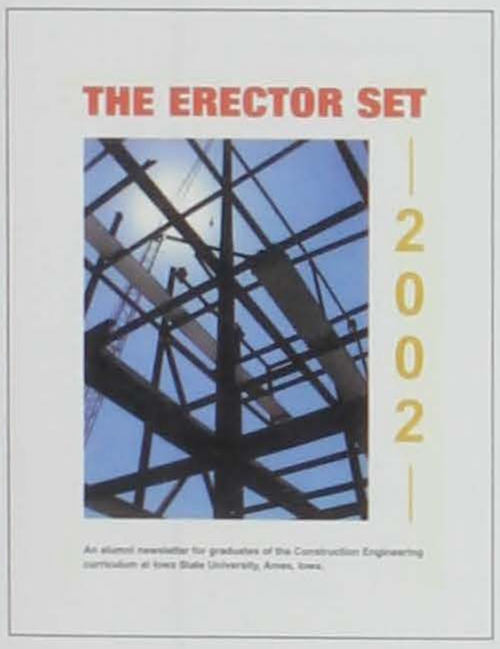
These days our current ConE Secretary, Denise Wood, keeps four large-size, three-ring binders filled with back issues of the *Erector Set* within arm's reach. With 50-year anniversary preparations in full swing, these *Erector Sets* give authoritative answers to the kinds of questions that come up when you are preparing for such an event. For example, she realized that she is only the sixth person to occupy her chair. Only Teresa Olson, Donna Schradle, Kathy Sturtevant, Linda Claussen and April Franksain have preceded her.

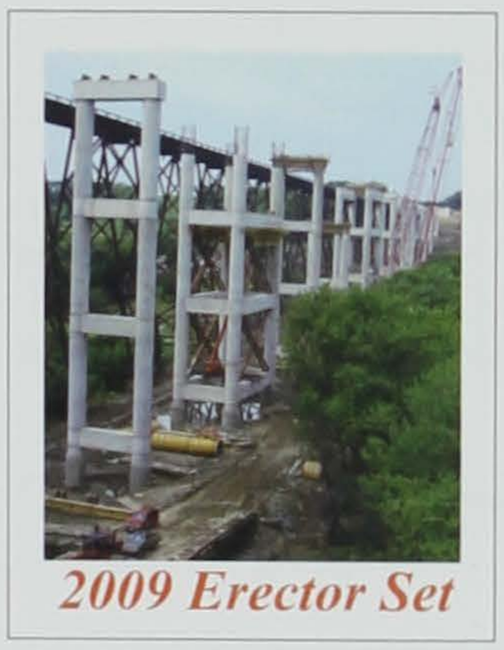
So what is the *Erector Set*? The first issue, dated 1969, tells the story. His words resplendent in the purple mimeograph type of the day, Tom Jellinger, ConE's first Professor-in-Charge, explained that this was to be the first annual newsletter for Iowa State University's ConE program. Traditionally, summer brings a relaxing change of pace to an academic program, a good time to take stock of things and renew old connections. The ConE secretary would send out Tom's plea for all alumni to write back and give an update on what had happened to them in the last year. In that first issue, 53 alums replied, filling nine pages in single-spaced IBM Selectric typeface, including a report from the AGC's Student Chapter, Tom's report of the year's events, and his exhortations to forward addresses of missing alums and to reply promptly when the *Erector Set* letter showed up again next year.

Tom was right. From this humble beginning, it truly became the ConE Annual Letter and it has not missed a year of publication since. And it evolved. In 1971, the circulation must have

overwhelmed the purple mimeograph. Stencils were cut, still in IBM Selectric type, but now things were in black and white! 1975 ushered in the print era where the covers changed color each year and depicted in silhouette a crane swinging a concrete bucket to a laborer perched on formwork for a concrete column.

From 1983 to 2001, the *Erector Set* settled into having a yellow cover with red printing, still retaining the trademark silhouette picture. In 2002, the publication took on a slick white cover with color pictures contributed by alumni that changed from year to year.




2009 Erector Set

The modern *Erector Set* has an electronic version and contains color pictures of award-winning student teams, multiple reports from student organizations, news releases collected from the prior year, and updates from emeritus faculty. Each year we still fret because we wish more people would reply. In about 2005, when I was serving as Professor-in-Charge, I shared the *Erector Set* and my concern with Jeff Johnson, who heads the ISU Alumni Association, and he set us straight, saying that our response rate and our alumni loyalty are absolutely amazing. Our response rate was more than four times that of the nearest competing newsletter at Iowa State University. As a result of that meeting, we increased the publication's usefulness as a networking tool by adding alumni indices that were sorted alphabetically, by year of graduation, and by geographic location.

So where did the name come from? In Tom's first Professor-in-Charge *Erector Set* Preface, he officially credited it to "... the application of too much grey matter on the part of members of the AGC Student Chapter." However a few years ago, when I was speaking to him informally, I got a different story. He said that one day he was talking about the newsletter idea with his wife, Ro, and said he was thinking of calling it The ConE Newsletter. She thought about it and said, "That sounds boring! Why don't you call it something fun, like the Erector Set?" Somehow, I believe the informal explanation more than the formal one!

Pictured in the middle: Various covers for the Erector Set throughout the years.

REPRINT OF THE FIRST *ERECTOR SET*

Call for 2011 Submissions

We are very pleased to announce the "Golden Anniversary *Erector Set*" as part of this "Construction Engineering: 50 Years of Excellence" commemorative book and 50th Anniversary celebration. On the following pages, please enjoy a reprint of the first *Erector Set* produced in 1969.

Due to space limitations, this year's *Erector Set* simply includes class lists for our bachelor's, master's and doctoral degree graduates, as well as an alumni index by year.

For next year's 2011 *Erector Set*, we will continue our usual format of including updates from all of our ConE alumni. We ask you to submit your current information and news to Denise Wood at dwood@iastate.edu. Around May 2011, Denise will also e-mail out an electronic link for the submission form to the current e-mail addresses we have on file.

You will also find a CD of all the electronic files (PDF versions) of *Erector Sets* from 1969 through 2010.

THE ERECTOR SET

Volume I Number 1 July 22, 1969

An alumni newsletter for graduates of the Construction curriculum at Iowa State University, Ames, Iowa.

This is the first attempt at what we hope will be an annual publication of an alumni newsletter for graduates of the Construction curriculum. The name which it bears is the result of much grey matter being exercised on the part of the members of the Student Chapter of A.G.C. The idea of such a newsletter has been entertained for the last two years but with the process of procrastination, it has undergone an extremely long gestation period.

The curriculum is considerably different from what will be remembered by the first small class which graduated in 1963. Those mean graduated with a B.S. degree in Engineering Operations and are to be fondly remembered for their willing service in the role of guinea pigs. Those of you who were around at that time will recall that the curriculum was in such a high degree of flux during that period that we were more inclined to call it a program rather than a curriculum. It served the purpose, however, of allowing experimentation and modification with course content and was probably an exercise which has been beneficial to later graduates. That first year saw only four graduates while in recent years we've graduated about 18 per year.

The early graduates also suffered from having only one instructor in construction subjects, while as of this fall the curriculum will have four staff members, with an additional one tentatively approved to be added in the fall of 1970.

We have moved rapidly from Engineering Operations to Building Construction to Construction Engineering, which is anticipated to be in effect next fall. With the advent of the degree in Construction Engineering, six new courses are being added to the curriculum to allow for emphasis in either Building Construction or Heave Construction. We have also moved from administration of the curriculum by Industrial Engineering to Architecture to Civil Engineering. This last move is an attempt to improve our chances of receiving accreditation from the Engineer's Council for Professional Development. We will be examined at the same time that all the other engineering curricula in the College are, that is in the Spring of 1971. If we receive E.C.P.D. accreditation, it will make us the first accredited curriculum in Construction Engineering in the country.

Jim McKie left the curriculum and transferred to the Faculty of the two-year program in Construction Technology. We still see him from time to time and he seems to be quite pleased with his work in the Technical Institute. Don Kawal joined us three years ago after receiving his Masters Degree in Building Construction from Michigan State. He is currently working on his Ph.D which he expects to receive this fall. Norman Riis joined the Faculty last fall on a part-time basis. He has been teaching in the area of Site-Organization and Cost-Estimating. Norm is a 1961 C.E. graduate from I.S.U. and a former Master Builders of

Iowa scholarship winner. An as yet unnamed man will be joining us this fall. His interest and background will be primarily in heavy construction and will bring a better balance to the Faculty.

We have attempted to get news on all of the graduates but unfortunately our detective staff is not infallible. You will, therefore, notice blanks after some of the names. We would greatly appreciate it if you would write and let us know current information and where-abouts regarding such individuals.

Since this is but the first of many newsletters it is also greatly lacking in current information as to activities of the graduates. We would greatly appreciate it if you could let us know what you are doing so that we could include it in next years newsletter which we hope will be out at an earlier time. Also if you have any information regarding the other fellows please send it to us so that we can have a more interesting newsletter in the future.

REPORT ON
STUDENT CHAPTER AGC

The Student Chapter of Associated General Contractors was formed in 1964. The chapter has monthly meetings during the school year. Most meetings feature guest speakers as well as the regular business activities.

During the past year there were fifty-four members of the club. Most of the members were Building Construction majors, but some Architecture, Industrial Administration, and double major students were members. The past offices were Jack Taylor, President: Ed Voss, Vice-President: Merle Ocken, Sect.-Treas: Joe Gorden and Loren Kneeland, Engineering Council Representatives: and Rick Schultz. Building Construction Representative.

The Chapter sponsored a field trip to Dallas, Texas over the Spring quarter break. There were twelve members including Don Kawal, our faculty advisor, who visited eight job sites and offices in the Dallas area.

Four of the Chapter meetings during the past year were concluded with guest speakers. David Culver, David Ripley, and James Wilson from Becktel Corporation gave a presentation on some of their Construction work. Woody Buck from, Thompson Construction Company, Ames, Iowa, gave a talk on the role of the college graduate in construction. Walter Nashert from Oklahoma City, Oklahoma, gave an interesting talk on his historical construction museum. Ron Southard and Laurence Smith from Jens Olesen & Sons Construction Company, Waterloo, Iowa, gave talks on the opportunities in construction.

The Student Chapter as in the past, had a concession stand during Viesha at Iowa State University. We put more than $200 in the Chapter treasury from the proceeds of the stand. As the final event of the year we had a picnic that was attended by more than thirty people.

The Student Chapter AGC has succeeded in its purpose of furthering communication between the student and the construction industry. The chapter has also provided the vital role of acquainting new students with fellow students in the construction curriculum.

ALUMNI ADDRESSES

1963

Bruce Byers - 31 Roswell Ave., Apt. 1, Long Beach, Calif. 90803
Following his tour with the Navy Bruce went to work as a scheduling engineer for Fluor Corporation in California. We have quite a contingent of construction graduates with that company.

John Sorenson - 20A Escondido Village, Standford, Calif. 94305
We just received this address from the Alumni office. Unless I am mistaken John is living in married housing at Standford University and may be going to graduate school out there.

Jack Gethmann - 610 N. 5th St., Marshalltown, IA. 50158
Jack joined the family firm following graduation, he has had a varied and challenging experience since then and has been an active supporter of the curriculum. Jack and his wife JoAnn and 2 (?) children are living in Marshalltown.

Terrill McGiverin - 1641 S. Beverly Glen Blvd., Los Angeles, 90024
The last we heard Terry was with the County Engineers office in Los Angeles. He was, however, considering a change and our information may be obsolete. As I recall Terry has married since graduation but no info on the better half.

1964

Andrew Ask - 2112 18th St., Cuyahoga Falls, Ohio 44223
We heard from Andy a couple of years after he graduated when he was with the Trane Corporation, no more recent messages.

Richard DeMore - 200 Marion Ave. Pittsburgh 21, Pa.

Halvard T. Johnson - Orts E, NAS Atlanta, Marietta, Ga. 30060
Hal stopped in a couple of years ago just before he reported for Navy duty. By this time he may have finished his tour and been relocated.

Thomas Line - 2420 S. Main, Sioux Falls, S. D.

Paul Neal III - 6700 Gulf of Mexico Dr., Long Boat Key Sarasota, Fl. 33577
Tony dropped by about five months ago to bring us up to date. He worked for Knudson as project engineer on a new building on campus for the first few months. Following that he sent to California with a large firm which then sent him to Australia, while there he got involved in

the Residential field, on his own, and also acquired an Australian bride. When he was back it was his intention to go to Florida for a few months to help his Father and then he and his wife were heading for the wilds of Alaska to see what the opportunities are there.

1965

Steve Dunlap - 4020 W. Glenlake, Chicago, Ill. 60646
Steve spent a year and one-half with a firm's name I can't remember. Last word I had was that he was selling life insurance but that was some time ago.

Gary Evans Gotfredson - 3532 W. 83rd St., Prairie Village,, Kans. 66208
Gary has been with Black and Veatch, consulting engineer, in Kansas City since graduation. He is within a very few months of securing his Professional Engineer Registration. Correct me if I am wrong on this but I think he will be the first from the curriculum to secure Registration.

Warren Vosler - 8802 W. 62nd Terrace, Shawnee Mission, Kans. 66202
Warren also went with Black and Veatch in Kansas City following graduation. I have not received any additional information on him.

1966

Fredrick Andringa - 1538 East 9th, Sheldon, Iowa
Fred went East with a construction firm after he graduated. Following the death of his Father he returned to Sheldon with the intention of terminating his Father's construction firm. In the process of finishing the jobs he became involved and interested and now makes his home in Sheldon.

Patrick Klein - 1717 Cornwall Ave., Waterloo, Ia. 50702
Pat went to Colorado following graduation in the structures department of an aircraft firm. About two years ago he and his wife and 3 (?) children returned to Iowa and joined Youngblut construction Co.. in Washburn. Pat also is not to far from receiving his P. E. license.

James Brubaker - 611 E. So., Apt. c/5, Marshalltown, Ia. 50158

Jerry Gosselink - 1409 W. First, Pella, Iowa
We just received news the other day that Jerry has recently been discharged and is going to work for Weitz Company in Des Moines, Iowa

Richard Greenlee - Rieke-Carroll Muller, 32 10th Ave. S. Hopkins, Minn.
Richard went to Texas or Oklahoma with an oil company when he first graduated after a year and one-half he returned to Des Moines and joined

Vanderlinden and Dennis, consulting engineers. He has since left that firm and joined a firm in the twin cities area of Minnesota.

Raymond Hendrix - M/s GP CMR 1, Box 4234, Keesler AFB, Miss. 39534
Ray went with Catapillar Tractor Co. in Peoria, Illinois but according to our most recent address on him he is now engaged with Uncle Sam.

Loren Larson - 1500 S. Maple, Sioux City, Ia. 51106
Loren went with Eldon Schroeder, consulting engineers in Sioux City, following graduation, he is still in the same place and from what we understand enjoying it tremendously.

Vaughn McIlrath - R. R. #1, Brooklyn, Iowa (Parents address)
Vaughn initially joined Red Ball Construction Co. in Iowa City. His employment was interrupted by service in the SeeBees but we understand he is back in Iowa City.

Gale Peterson - Box 174 Reinbeck, Iowa
Cork is in business in Reinbeck, Iowa doing just what he said he was going to do, move dirt. Cork is still single and enjoying the ski slopes of Colorado during the slower seasons. Don't be too surprised if we bring him back on campus for a little part-time teaching in two or three years.

James Prochaska - 690 Don Juan St., Apt. 1, Colorado Springs, Colo. 80909

Thomas Wedewer - 1434 Rock Glen Ave., Glendale, Cal. 91205
Tom called us from California to announce that he is Chief estimator for McKee Contractors doing approximately a 100 million volume a year. Tom joined them following initial employment with the family firm. Need info on the exact number of children.

Glenn De Stigter - 510 E. 5th, Ankeny, Iowa 50021
Following 1 ½ years with Grabau Construction Co. in Boone Glenn joined a Des Moines construction firm which promptly sent him off to Colorado.

Norman Larson - 201 W. Wick St., Morton, Ill. 61550
Norm was through about a year ago on his way to Vietnam. At that time he took advantage of the Engineering placement service and interviewed a couple of firms regarding job possibilities. There is a man who's really looking ahead.

1967

Michael Paradise - In service

John Carlstrom - 4484 Redman Ave., Apt. G, Omaha, Neb. 68111

Last word we had John was still with Martin K. Eby Co. in Nebraska. According to his dad, it is a little rough to see John at an AGC meeting wearing a nametag from other than the family firm.

Daryl Hallquist - R. R. #3 Box 127, Rapid City, S.D. 57701

Peter Kaser - 3111 Ingersol Ave., D. M., Iowa 50312

Gary Lamb - 7380 N. W. 6th, Ankeny, Iowa 50021

Michael McPherson - 7106 South 19th St. Omaha, Nebraska
Mike spent about a year with Levitt Co. in the East. He enjoyed the experience very much and seems to be very satisfied with the firm. Last time he was through was during a change in duty assignments with the Air Force. If my memory serves me correctly he should be getting out within the next year.

Noel Raufaste - c/o Research Mgmt. Corp. 7315 Wisconsin Ave. Bethesda, Md. We year from Noel a couple times a year and he is most enthusiastic about the work he is doing. The firm does a lot of consulting work with the Department of Defense and NASA. He says the firm is of such a size that you get a lot of help and experience without being held down too much. As some of you will recall, Noel did his research on lunar space structures and has been able to follow it up in his work.

Patrick Rossmiller - 133 Woodlawn, St. Paul, Minn. 55105
Pat is currently with a construction engineering firm in the Twin Cities. At last count there were about 5 or 6 fellows from the program in that area. Need more information on what you are doing Pat.

Russell Lee Wall - 7732 So. Bright Ave., Whittier, Calif. 90602
Rusty is in the department of scheduling engineering with the Fluor Corporation in Calif. From reports he is doing real well and enjoying his work.

Robert Behling - 2414 Eggleston Crt., Apt. 2, Rockford, Ill. 61108

Gary Hemmen - 102½ 6th St. Nevada, Iowa
Gary spent a year with the Weitz Co. in Des Moines as a superintendent. Following that he went to work for James Thompson and Sons here in Ames and is currently working on the coliseum building at the Iowa State center.

Douglas Lysne - Box 88, Owatonna, Minn. 55060
Doug went to work for the family firm in Minnesota. We received a letter from him during this last year trying to hire one of our graduates. So business must be pretty good.

Thomas Stanley Peterson - 1121 Scottwood Dr., Rockford, Illinois 61107
Tom went with John G. Miller Company in Waterloo, Iowa. The last report I had was that he was on a 6 months leave of absence for duty with Uncle Sam.

Darrell Ball - 3103 Hillsdale Drive, D. M., Iowa 50322

1968

David Lovejoy - 901 5th Ave., N. Seattle, Wash. 98109
I seem to recall a rumor that Dave was going to graduate school. Sorry, but I have no information as to what school or what his major is.

Richard Oehlerts - 16000 West Nine Mile Road, Southfield, Mich. 48075
Dick was in just a week or two ago but unfortunately I was out. He is with the Pure Oil Division of Union Oil Company as a Field Engineer for new construction. A year ago he was on campus recruiting for his firm. He says the work is interesting and involves quite a bit of travel.

Marvin Tenclay - 404 7th Ave., Sheldon, Iowa 51201
Marv dropped us a Christmas card from Vietnam. He said the experience is interesting but he would still rather be back in the states.

Leon Ihle - 863 N. LaSalle, Chicago, Illinois 60610

Stephen Maloney - R. R. #1 c/o J. J., Bondurant, Iowa 50035
The last word we had on Steve came from my son, who said he ran into him at Ft. Sill, Oklahoma.

Vincent Paul Moltz - 203 Benton, Waynesville, Mo., 65583
Paul went with Eby Construction Co. and for a while worked on the theater auditorium at the Iowa State Center. He is currently on a multi-million barracks project at Ft. Leonard Wood, Missouri. From a telephone conversation with him I gathered he is having more than his share of labor problems, particularly jurisdictional disputes. He indicated he was going to finish work on his thesis for his Arch. E. degree but I didn't receive anything on it this Spring.

Harold Sullivan - 1454 E. 15th St. Des Moines, Iowa 50316

Michael Terrell - P.O. Box 375 Fremantle, Western Australia Australia 6166
Mike and Susy are in Australia and dropped us a card from Hawaii where they stopped on their way over. They expect to be in Perth for two or three years. Mike had a good experience with Alcoa down in Texas and really seems to enjoy the work. He sends his regards to the Student Chapter and all his friends.

Ronald Southard - 1120 Washington St., Cedar Falls, Iowa 50613
Ron is with Jenes Olesen Construction Company in Waterloo, Iowa. The Student Chapter had him back as a speaker during the last year to tell of his experiences since graduation. Everyone found it interesting and extremely informative.

Gerald Larson - 1500 Morningside Ave., Sioux City, Iowa 51106
Jerry is with W. A. Klinger in Sioux City and from all reports is doing very well. He was on campus once this Spring during an inspection trip to the new classroom building.

Larry Van Manen - 2604 Murrwood Ct., Mobile, Ala. 36605

Donald Alm - 6730 No. 21st St. Phoenix, Ariz. 85016

Larry Kohns - RFD 3 Cherokee, Iowa 51012

Loren Menz - BUZ B635134, MCB 11 D Co., 2nd PLTN F.P.O. San Francisco, Calif. 96601 Received a letter from Loren very recently from Vietnam. It was a wonderful letter and I wish all of you could read it. He spoke of working from 10 to 20 hours a day and thoroughly enjoying the work. To quote Loren he is "beginning to sound like a recruiter".

Stephen Murphy - 1 Commerce Park Sq., 23200 Schagrin, Cleveland, Ohio
Steve went with the Hannon Co. in Cleveland, Ohio. Have not had any first hand reports of his opinion of either the company, the work, or the city.

1969

Dennis Lindsley - 1628 23rd St., Des Moines, Iowa 50310
John Buyert - 307 1st Ave. N.E. Sioux Center, Iowa 51250
Gregg Tharnstrom - 1130 Hampton, St. Louis, Mo.
Jock Thompson - 1 Commerce Park Sq. 23200 Schagrin, Cleveland, Ohio
Jack P.Taylor - 245 Marquete Ave., Mpls. Minnesota
Roger Floyd Gilbert
William Dean Nelson -
Samuel Lee Thomas -
Edward Joseph Voss - 2820 Ontario Rd. Ames, Iowa 50010

The following fellows just graduated during this year and no reports are available on them as yet. I am listing the addresses that to the best of my knowledge are the most recent.

Please let me repeat my plea that each of you during the coming year will send me information on your activities for next year's newsletter. Also, if you have information on any of the other fellows or have a more recent address on them please give either that

information or contact them and have them send it in themselves. It is hoped that future newsletters can be a bit more informative and complete and may serve to keep all of us in touch with one another.

There are several men who graduated from the combined program with Industrial Administration who are actively engaged in the construction industry. Unfortunately I had no information on them but would be happy to include them in next years newsletter if I can but receive the information.

All of us here at the University wish for all of you a very successful and happy time in the months between this newsletter and next years issue. It is a source of great satisfaction to us to see your successes as you follow your chosen careers. We do ask that you give us the pleasure of keeping us up to date so that we might share your successes with you.

Sincerely,

Tom Jellinger

Thomas C. Jellinger
Professor In Charge
Building Construction

TCJ/kb

ERECTOR SET CLASS LISTS

Bachelor's degree graduates

1963 - Bruce Byers, Jack Gethmann, Terry McGiverin, John Sorenson

1964 - Andrew Ask, Halvard Johnson (deceased), Thomas Line, Tony Neal

1965 - Richard DeMore, Steve Dunlap (deceased), Gary Gotfredson, Ann Lavalie-Schar, Warren Vosler

1966 - Fred Andringa, Jim Brubaker, Glenn DeStigter, Jerry Gosselink, Rich Greenlee, Ray Hendrix, Pat Klein, Norm Larson, Vaughn McIlrath, Cork Peterson, James Prochaska, Tom Wedewer, Tom Werderitsch

1967 - Darrell Ball, Bob Behling, Mike Carlstrom, Daryl Hallquist, Gary Hemmen, Pete Kaser, Gary Lamb, Doug Lysne, Mike McPherson, John Miller, Mike Paradise, Tom Peterson, Noel Raufaste, Pat Rossmiller, Russ Wall

1968 - Don Alm, Leon Ihle, Gerry Larson, Dave Lovejoy, Steve Maloney, Loren Menz, Paul Moltz, Steve Murphy, Rich Oehlerts, Ron Southard, Harold Sullivan, Marvin Ten Clay, Mike Terrell, Larry VanManen

1969 - John Buyert, Roger Gilbert, Dennis Lindsley, Tom Prendergast, Jack Taylor (deceased), Gregg Tharnstrom, Sam Thomas, Jock Thompson, and Ed Voss

1970 - Jim Berkland, Edd Collins, Joe Dahlman, Les Duff, Bill Frank, Dan Gannon, Jack Guinn, Stanley Hanson, Dave Johnson, Steve Jones, Loren Kneeland, Everett Krug, John Martin, Denny Miller, Merle Ocken, Doug Ohde, Bob Prosperi, Terry Randall, Joe Sanders, Rich Schultz, Bob Smalling, Steve Treharne

1971 - Dennis Bausman, Ron Christensen, Jim Coffman, George Enderson, Dave Erb, Gary Forristall, Rick Geiler, Pete Goodwin, Everett Gustafson, Joseph Gordon, Rich Harlson, Jim Kincart, Jim Koepnick, Larry Leege, Jim Maifield, Chuck Major, Lee Martinsen, Dave Miller, Ron Norby, Doug Powell, Dave Ranker, Steve Seifert, Jeff Sheriff, Don Smith, George Spevacek, Dean Swinton, John Thornquist, Chuck VanFossen, Terrence Webb, Jim Whitcome, Larry Workman

1972 - Bob Agnes, Jim Benike, Bob Blahnik, John Borns, Doug Brandes, Ron Deihl (deceased), John Detlefsen, Phil Eckhoff, Bill Eich, Chuck Floyd, Steve Grosland, Tod Hanneman, Dan Ilten, Norm Klootwyk, Gerry Lange, Dennis Lewis, John Lukin, Russ Manning, Larry Moeller, Mike Murphy, Ken Seeger, Mark Shumate, Tom Sido, Mike Stangl, Jim Stecker, Rich Sulzbach, Dennis Thompson, John Walters, Steve Werden

1973 - Dennis Alvestad, Rickey Anderson, Craig Calligan, Tim Clark, Dave Dvorak, Steve Engelbart, Ray Flatland, Dennis Fowler, Dennis Gilbert, Kent Glesener, Tom Hale, Craig Hamilton, Bob Hanson, Ron Jochimsen, Doug Jones, Bob Logan, Henry Mathes (deceased), Larry McAlpin, John Menninga, Dennis Naberhaus, Dennis Nott, Doug Ohlfest, Rich Otto, Bob Pfeiler, Fred Rahbar, Tom Rogers, Kevin Strong, Jim Webb, Darwyn Witte, Kyong-Ha Yang

1974 - Jim Backman, Dean Barrett, Bob Boswell, Dave Brooks, John Cahill, Paul Campbell, Jim Dickinson, Jason Evans, Warren Fortune, Miles Gardner, Doug Johnson, Tracey Lambert, Steve Leavitt, John Lutt, Ed McCormick, Chuck Nizzi, Gil Perry, Mike Petersen, Bill Pfeffer, Roger Repstien, Jon Tiemeyer, Larry White, Mike Whitlatch

1975 - Larry Bjork, Randy Conner, Tony Cotter, Roger Cousins, Jim Dean, Dave Ekenberg, Mark Gronewold, Joe Harmon, Tom Heggen, Mark Herrick, Roger Honsbruch, Steve Jackson, Don Jungst, Steve Kane (deceased), Scott Kinkade (deceased), Tim Leinen, Pat Lorey, Alan Lutenegger, Mike Maas, Tim McFarland, Les Mikulecky, Albert Miller, Joe Mlady, Richard Mueller, Jerry Nieman, Jack O'Brien, Doug Otte, Eric Radius (deceased), Rich Reinke, Scott Richards, Jon Singelstad, Earl "Hap" Spencer, Don Thompson, Harlan Vandezandschulp, Pete Winchell, Wayne Wurzer

1976 - Rich Adams, Keith Burbank, Mike Carroll, Steve Downing, Kim Fields, Nick Flannery, Dan Glines, Rich Golay, Wayne Graeve, Mark Hilton, Mike Hunt, Bill Link, Curt McCline, Tom McCormick,

Jim McElroy, Steve Ford, Tim Muller, Carl Nelson, Dwayne Netley, Thomas Noonan, Martin Poduska, Louis Riedmann, George Roland, Jerry Sande, Rich Schoene, Isaac Shisler, Bob Seipold, Ken Sorensen, Jeff Spanel, Jeff Stone, Rick Tollakson, Rich Troyer, Rob Vannoy, Lauren Wurzer, Mark Zeigler, Steve Zimmerman

1977 - Doug Barry, Dave Bartilson, Steve Blount, Steve Braesch, Cragon Caboth, John Christensen, Gary Crist, Milt Dakovich, Guy Deal, Dave Dickinson, Neal Dodd, Bryan Duffy, Donald Engstrom, John Evans, Ted Feilmeier, Bob Fett, Tom Finnerty, Guy Gast, Bill Goodall, Nick Grunzweig, Craig Hansen, Howard Harris, Steve Hay, Tom Hughes (deceased), Judd Hunemuller, Paul Johnson, Paul Koester, Greg Larson, Don Martin, Pat Murray, Leon Naberhaus, Jim Robinson, Dean Sandell, Tom Stockdale, Tim Sullivan, Jim Swanstrom, Terry Thompson, Tim Wheeler

1978 - Mark Althoff, Rich Alexander, Steve Amento, John Benike, Brian Boesenberg, Jim Bosshart, Rick Brandon, Bob Carter, Jeff Chadima, Dan Churchill, Dennis Churchill, Dave Conlon, Larry Cormicle, Jon Crumpton, Tim Dickerson, Larry Dillon, Pete Douglas, Chris Dummermuth, Ron Elsner, Jim England, Scott Fabere, Tom Fieweger, Jim Fritcher, Mike Gawley, Mike Graeve, Jeff Hansen, Bill Hornaday, Dave Ivis, Steve Johann, Dave King, Jon Koerner, Tom Krage, Steve Lang, Craig Larson, David C. Larson, Dave J. Larson, Doug Lawrence, Chad Lewis, Scott Linn, Bob Marsh, Jeff Moore, Mark Morse, Arthur Newman, Mike Novy, Keith Ones, Rocco Pigneri, Bill Potter, Jim Rainforth, Mike Rehm, Rick Roseland, Habibollah Sabzehzar, Nick Schapman, Pete Shelp, Gary Shevik, Eric Torkildson, Lynn Wenger, John Wolf, Leon Yoder

1979 - Aliyu Abubakar, D. Craig Anderson, Dave Anderson, Bill Bales, Larry Beck, Mark Bell, Tom Borns, Mark Boschult, Mike Boucher, Mike Brandt, Darrel Brostrom, Al Bush, Mark Christensen, Rich Clarke, Doug Coffee, Duane Coon, Mark Cramer, Jim Davis, Paul Dawson, Ralph Dillon, Dennis Duke, Larry Erps, Gary Fils, Craig Francois, Alan Gast, Joe Gerleman, James Giannelli, Paul Giroux, Mike Glander, Craig Goettsch, Mike Gorman, Patrick Grablin, Jim Hagberg, Pamela Harman, Lee Harmsen, Steve Hauser, Ed Hendrickson, Paul Henkels, Bill Heston, Dave Hill, Syd Hobbs, Eric Horlyk, Steve Johnson, Mike Karlson, Tom Lebo, Jim Lilly, Jeff Lorenzen, Jerry Ludwig, Gary Marrin, Greg Martin, Spencer McGruder, Jeff McKay, Jay Merkel, Tom Mitton, Dan Mullen, Steve Olson (deceased), Bob Payne, Fred Pech, Ron Pedersen, Gary Prescott, Paul Raymond (deceased), Barry Rogers, Keith Ruhland, Ahmed Sasso, Steve Schmidt, Lynne Schluter, Daniel Schuster, Scott Sheller, Gary Showalter, Mike Sikorski, Stan Simmons, Don Stark, Dan Strotman, Ron Sweeney, Craig Tieck (deceased), Larry Walsh, Jim Walstrom, Jim Washburn, Pete Welin, Bob Westendorf, Kevin Williams

1980 - John Adam, Richard Allison, Mark Anderson, Dave Barkley, Rod Bickert, Ali Bitar, Scott Blunck, Bryan Boerschel, David Bosshart, Jim Boutwell, Karl Breckon, Willie Calderwood, Jim Carlson, Doug Carper, Mike Casey, Chuck Connor, Greg Czapanskiy, Scott Davis, Dave Duke, Randy Dusil, Val Fagre, George Feazell, Michael Ford, Kevin Gibbs, Mark Godar, Steve Greenig, Phil Gudgel, Joe Hassenfritz, John Henkels, Randy Holt, Tom Jensen, Dave Johnson, Mark Johnson, Tim Johnson, Jeff Johnston, Randy Kirchner, Fred Kruse, Chris Larson, Kenton Larson, Gary Leapley, Jim Leavitt, Steve Leonard, Jack Man, Dave McCarthy, Norm McDonald, Tom Moore, Doug Morgan, Jeff Nading, Larry Niebuhr, Brett Nuckolls, Bob Pasquariello, Craig Pepper, Becky Peterson, Brad Phillips, Ritchie Price, Wayne Prior, Jeff Pullen, Ted Reeve, Robert Reinke, Pat Richter, Craig Rosenow, Dirk Schafer, Whitney Scully, Lary Sheffert, Scott Smiley, Dean Spratt, Keith Stohlgren, Mike Tousley, John Vogt, Jon Walker, Craig Wallace, George Wang, Brian Weaver, Brian Williamson, Brandt Williamson, Dana Witt (deceased), Steve Wolter, Scott Wolterman, Rich Wyatt, Ara Yessaian, Kirk Zeller

1981 - Ahmad Aliwat, Curt Andersen, Brian Anderson, Rick A. Anderson, Gary Barkhurst, Bruce Beisler, Steve Bell, Jim Benge, Craig Bjorklund, Jim Brady, Tim Brady, Monique Campos Lange, Mike Carpenter, Randy Clarahan, Randy Cole, Thane Davis, Doug DeStigter, Tim Dillavou, Scott Dixon,

Kirk Drees, Loren Field, Rich Flathers, Earl Fleagle, James Fosdick, Don Foster, Kent Friedrichsen, John Gehrls, Jim Getman, Paul Goldhorn, Brett Gunnink, Gerry Granahan, Jeff Hall, Peter Hall, Lee Hansen, Hans Hansl, Alex Hart, Doug Herrman, Greg Higginbotham, Doug Hirsch, Kevin Holcomb, Al Holmberg, Larry Hurley, Mark Hunsicker, Gregg Hunter, Scott Hurd, Mike Hutter, Susan (Colbert) Hyler, Craig Kelling, Greg Knau, Dale Knueppel, Robert Krier, Doug Kumm, Kevin Kupka, Ian Lamp, Robert Lie, Dave Little, Brian Littrell, Bob Logan, Steve Logue, Steve Loudin, Jim Lowndes, Mark Loxterkamp, Craig Mack, Chris Manning, George Martens, Peter Martin, Marty Massman, Gary Matt, Dean McCormick, John McDonald, Maryam Morshed, Scott Morton, Pat Neelan, Joe Nestvedt, Jim Nissen, Thomas Novak, Kevin Osgerby, Brad Palmer, Neal Palmer, Gerald Peterson, Deb Pullen-Workman, Owen Raun, Joel Reinert, Steve Roberts, Karl Roth, Mike Sample, Randy Sanman, Bob Sautter, Jeff Schebler, Terry Schroeder, Jim Schwamman, Tim Seibert, Dan Sloan, Gust Soteropulos, Craig Spidle, Jeff Stewart, Glen Stinn, Dave Tech, Tom Thomas, Jim Thompson, Dan Timmons, Brent Underwood, Dan Venter, Mike Welter, Dave Wenthe (deceased), Dave Wesely, Bryan Zarn, Doug Zerbe

---

1982 -Roger Anderson, Nick Badding, Matt Bailey, Mark Ball, Kent Bearson, Dan Biere, Ralph Boedeker, Mike Bontrager, Tim Boone, Steve Bosshart, Gretchen Bothwell, Scott Bretthauer, Ken Chicoine, Scott Cicciarelli, Daniel Conley, Sarah Craiger, Scott Crosser, Kevin Culp, Bob Dakovich, Dean Denardi, Bob Doss, Dwight Dohlman, Victoria Dumdei, Amir Ebrahimi, Jeff Ehm, Mike Ellingson, Bryan Faktor, Gary Fleming, Jeff Forbes, Dennis Ford, Carey Fowler, Jim Fry, Jay Gabrielson, Bill Gahan, David Gatto, Jeff Geske, Mike Gritters, Dan Hanson, Bob Harmon, David Hawn, Kevin Helgevold, Tom Henderson, Matt Hetzler, Paul Higgins, Steve Ho, Rod Hoffman, Tony Hovenga, Dave Hullinger, Bill Johnson, John Keleher, Steve Kleiman, John Knibbe, Brian Knudsen, Mark Kramer, Fred Langdon, Gary Leach, Chris Lindhart, Jerry Long, Scott Madson, Todd Mattison, Kimberly McDonnell, John Meis, Brad Mills, Al Molln, Michael Morris, Gary Noel, Mark Olson, Paul Oberhaus, Tom Parham, Mikl Parsons, Mark Rasmusson, Randy Reihmann, Tom Rolfes, Mike Schmidt, Rick Schultze, Scott Shriver, Mike Shuba, Craig Southorn, Brad Strehlow, Jay Swanstrom, Scott Thompson, Rich Tjelmeland, Kevin Tubbs, Aniekan Usoro, Dan Van Dyke, Larry Welder, Sherman Welker, Jeff Wenzel, Steve Westby, Eric Wilbur, Tim Wright, Jeff Yoder, Dave Yungclas

---

1983 - Kouros Ansari, Jon Barstad, Tim Bickert, Bret Broullette, Jim Cooper, Scott Cranston, Jim Cripps, Jay Dillavou, Jeff Dingwall, Rhonda Distefano, Joel Doyle, Bryce Erickson, Gary Frentress, Mike Gerard, Abolghassem Ghafghazi, Mark Gmitro, Jim Greco, Nizar Hamad, Mark Haynes, Galen Heying, Scott Higgins, Keith Hill, Ken Houseman, Mark Hutchens, Behzad Jafari, Stephanie Jessen, Brent Johnson, Hamdi Kanaan, Jeff Knight, Greg Kooker, Jeff Larson, Bryan Lower, Bill Lubbert, Jeff Lucas, Brad Martin, Pat McDonald, Don Medema, Phil Neumann, Scott Niebuhr, John Nieman, Nia Ong, Jim Patrick, Lowell Penning, Doug Perrenoud, Gerald Peters, Tim Ranch, Basil Rhymes, Tim Rigsby, John Rivisto, Jim Russell, Ben Schwab, John Shilkaitis, Jamie Sipes, Todd Sirotiak, Jeff Smith, Ray Smith, Kelly Stevenson, Doug Struss, Mike Sugre, Bob TenEyck, Clement Teo, Bruce Thomas, Kim Watson-Eberhard, Dave Wharff

---

1984 - Greg Anderson, Steve Boat, Donna Buchwald, Jon Buenneke, Kevin Butts, Scott Cahalan, Jeff Clancy, Lori Clement, (Michael) Al Coluccy, Dave Coziahr, R. Andrew Cox, Tom Coziahr, Kevin Currie, Kevin Decker, Steve Donner, Joel Doyle, Keith Ebert, Mikel Edwards, Paul Engelstad, Dave Forbes, Andy Frank, Greg Gerdes, Mark Guetzko, Doug Graeve, Bruce Gritters, Jeff Hansen, Todd Hauser, John Hayes, Brad Heemstra, Brian Hodgin, George Jessen, Steve Kaspar, Mike Kaufman, Randy Kibsgaard, Martin Kilheeney, Brian Laurenzo, Andy Lounsbury, Joe Maddy, Dwight Magee, Mike Mathiasmeier, Jane Martin, Seth McLaughlin, Karen Moeller-Thinnes, Catherine Morgan, Amy Myers-Engel, Bryan Myers, Randy Nelson, Bernie Newton, Bob Owens, Donna Praska, Mike Reuland, Dave Ricken, Steven Rogers, Gary Schmit, John Schneider, Jon Sealine, Joel Seaton, Kyle Smith, Mark Sorensen, Darren Spenler, Mike Stenşland, Bill Stotts, Eric Stroud, Dallas Sweet, John

Thomas, Mark Thompson, Scott Thompson, Clark Taylor, Doug Wall, Dan Ward, Randy Westbrook, Keith Whyte

1985 - Dave Albertson, Ali Ali-Tai, Paul Barnes, Kenneth Bonus, Bob Bridger, Kevin Bussard, Rob Callaghan, Greg Carlson, Joe Carsky, Eric Coe, Brian Danielson, Lee Dooney, Todd Ellgren, Bill Faoro, Joe Fay, Scott Fleagle, Greg Franzen, Greg Hansen, Scott Hansen, Martin Hoffey, Steve James, Carlin Jensen, Doug Jessen, Mohammad Kanaan, Paul Kieffer, Jon Kuenstling, Dan Leonard, John Lesh, Al Loeffelholz, Mark Martin, John Meier, Kent Meyn, Chuck Miller, Dave Mortimer, Tyler Nagle, Mark Nolta, Bob Nordland, Bob Parmalee, Ron Pelton, Dave Pepper, Dean Petersen, Kirk Peterson, Jeff Rager, Bill Ringsdorf, Al Schimmelpfennig, Tom Schlueter, Dan Slattery, Steve Smith, Mark Solberg, Kimberly Stephenson-Eucher (deceased), Mike Stoecker, Bob Thomas, Jeff Turk, Mike Turk, Scott Ure, Mike Vaile, Lee Vannoy, Lynn Vannoy, Chris Waber, Shane Walgamuth, Dave Weeks, Jeff Werthmann, Curt Weston, Greg Willis, Jann Wilson, Scott Wittkop

1986 - Kevin Binder, Gary Boring, Tim Brown, Dan Cahill, Kevin Casali, Kevin Clemens, Gary Conkin, Lisa Cowger, Chip Crawford, Wadih Daher, Dave Dimond, Dave Dixon, Chuck Ehrlich, Tom Ehrlich, Jon Ewing, Joe Flemming, Steve Freese, Steve Gromala, John Hendrickson, John Katschkowsky, Marc Kinseth, Harry Koenigs, Steve Leverington, Todd Liebbe, Steve Loneman, Steve Ludwig, Greg Marks, Jim May, Francis Modjeski, Dan Novak, Dave O'Dear, Joel Peterson, Dana Rand, Liz Reid-Benjamin, Drew Retz, Aaron Rosenbery, Tom Schmall, Kevin Seyko, Mike Sievers, Larry Sinnwell, Randy Smith, Wayne Snyder, Kevin Spooner, Craig Stearns, Mark Stritzel, Walter Smith, Kok-Heng Tan, Khing Teo, Roger Wendt, Andy Wyckoff

1987 - Tom Archer, Nader Antonio Bokaie, Arlan Bolstad, Steve Brandt, Bart Braughler (deceased), Hock Beng Chong, Jim Creath, Steve Daxon, Steve DeGroote, Geoff Eastburn, Steve Fangman, Mark Fowler, Joel Goehner, Andy Granner, Chris Harrison, Scott Hutchens, Don Jones, Craig Jorgensen, Scott Kelly, Chuck Kemp, Mary (Benike) Kisilewski, Russ Lewton, John Mahlstede, Kevin Markhardt, Mark McCarty, Steve Nelson, Scott Newbury, Randy Pauley, Andy Pope, Todd Propp, Scott Roecker, Dan Scholtes, Roger Smith, Mark Swenson, Bill Timmons, Jim Voss, Jim Walker, Jim Whitworth, Scott Wilming

1988 -Kurt Bailey, John Brennan, Kevin Brink, Todd Buchanan, Bob Cain, Greg Campen, Ken DeRose, Larry Dix, Don Drake, Ali El-Zein, Steve Ferguson, Ron Gaudreault, Bryan Geisler, Joe George, Tom Gill, Roger Grout, Bob Hamilton, Dave Harmelink, Matt Hindermann, David Howard, Scott Hudnutt, Bruce Hugo, Todd Jabaay, Michael Johnson, Brent Johnston, John Kavouris, Brian Klusendorf, Dave Lancaster, Curt Larson, Jeff Larson, Jeff Lehman, Dave Lehr, Mark Leuer, Ki Sing Lim, Eric Loomis, Ken Meyeraan, John Mozena, Dan Neppl, Scott Niebuhr, Al Perkovich, Jeff Peterson, Ramzi Qamar, Dave Ruggles, Brian Rumpf, Louis Sajovec, Mark Schraeder, Randy Sharp, Mike Smearman, Bob Sodders, Peter Stearney, Tim Tempel, Jeff Wagner

1989 - Pierre Adam, Greg Armstrong, Walt Babb, Ed Beal, Todd Berry, Allan Bolchazy, Dave Burke, Russ Buscher, Jeff Chapman, Doug Clark, Renee Coffin-White, Daniel Culp, Ron DeHart, Alan Farley, Steve Ganch, Craig Habben, Lance Henning, Nick Herrig, Roger Hunwardsen, Joel Johnson, Jim Kaplanes, Kevin Koellner, Richard LaNasa, Bryan Manfull, Rich Martinson, Haytham Miskawi, Bob Nangle, Chux Nwokedi, Mark Olesen, Tom Parietti, Randy Peters, Tony Quarve, Chris Rech, Ron Rens, Brad Schenck, Joel Schriever, Martin Schuetze, Pat Sleezer, Steve Springer, Phil Stearney, Lim Tan, Pat Van Treeck, Steve Van Weelden, Kurt Welker, Jim Voegel, Saren White

1990 - Mark Baughman, Kevin Behling, Bill Borgo, Gary Brill, Rich Busch, Jeff Carlson, Stacy Case, Robert Cramer, Steve Day, Tom DeVany, Jeff Drury, Mike Ernster, Mark Egner, Pat Evans, Tim Flickinger, Jeff Geier, Ross Harms, Terry Heiliger, Dave Herzberg, Vince Junker, Chee Kau, Jim Kennedy, Greg Lorei, John Lunsford, Jim Maloney, Wade McKee, John McMullen, Meisenheimer, Eric Moltz, Mary Nelson-Eliasen, Jon Newton, Alan Nilsson,

Tim Righi, Matt Romanowski, Brian Rossmiller, Nick Ruba, Greg Schulte, Tom Schumacher, Paul Snethen, Bill Stauduhar, Steve Struble, Steve Sturm, Chuck Sweetman, Tim Thomas, Mark Wageman, Rick Wagner, Keith Weidenbach, Scott Wendling, Andy Wolter

1991 - Brian Brewer, Earl Collins, Brent Cooper, Judd Davidson, Bob Davis, Tom Davison, Darrin Dehmlow, Prashant Desai, Scott Draper, John Elliott, Mike Espeset, Paul Francois, Cory Freeborn, Pat Gannon, Pat Geary, Douglas Gebhardt, Mark Gilbreath, Mark Gunderson, Djohan Halim, Greg Hemmen, Joe Hentges, Tony Hibbs, Stewart Krummen, Brad Larson, Dan Lewis, Rhonda Lewis, Dave Lyon, Jeff Marks, Mark McDermott, Russ Meier, Kyle Mettin, Doug Moore, Mike Orgler, John Pelton, Doug Persinger, Bart Petersen, Brian Pietig, Steve Pigneri, Gene Postma, Leon Pua, Jay Rasmussen, Kurt Reser, Jeff Schwartz, Shawn Sleezer, Brad Stamp, Steve Swanson, Jason Warren, Tom Wengert, Ken Wydajewski, Joo Yeong

1992 - Chuck Anderson, Trevor Anderson, Steve Baumann, Brian Bezanis, Lynnette Buttler, Randy Cummings, David DeGroot, Ali Dobaey, Jim Eipert, Jim Frye, Kendall Griffith, Brad Hofer, Brad Jensen, Curt Johnson, Wayne Kraft, Bruce Marsh, Mike Nelson, James Renoe, Bruce Rewerts, Elizabeth Robertson, Edward Schultz, Mike Sheesley, Dave Stealy, Don Stevens, Troy Turner, Jim Wahle, John Windolf

1993 - Jerry Atcheson, Jason Auer, Anthony Beier, Eric Bertaud (deceased), Steve Clausen, Jason Crookshank, Heather Cunz, Ron Ensley, Eric Floyd, Kyle Greenley, Mike Harger, Kevin Harrington, Vance Hikiji, Greg Hosch, Heather (Cunz) Jensen, Tony Jones, Mark Kintner, Mark Kutchen, Wayne Mander (deceased), John Marburg, Rick Mascardo, Chad Mussman, Scott Neubauer, Kelli Quinn, Kevin Reeg, Kent Ristau, Kirk Seely, Sean Terrell, Steve Troyer, Bill Vandenberg, Jeff VanEs, Kevin Voss

1994 - Chris Ahrenholtz, Shakil Ansari, Tim Becker, Steve Brindle, Brice Blank, David Burgus, Chad Bunner, Brad Churchill, Marcus Fedler, Bob Frohn, Matt Garwood, Mark Haines, Dan Hoefert, Darin Jacobs, Travis Lourens, Shane McFadden, Allen Mcintosh, Steve Miller, Tony Miller, Trent Mostaert, Chris Paris, Lorri Paul, Nick Ruden, Jay Runestad, Dave Stanley, Steve Stecker, Scott Turczynski, Kent Vaske, Rondea Wine

1995 - Ahmad Al-Khayyat, Kirk Alm, Aaron Benike, Andy Benkert, Kent Brcka, Dan Bruce, Dave Cantrell, Scott Carrigan, Paul Chandler, Stephanie Clausen, Jeff Colton, Jennifer Davisson, Matt DeJong, Steve Eikanger, Grant Elliott, Mike Ernst, Scott Feller, Dave Fisk, Dean Herbst, Brad Jones, Jason Jones, Chad Kehrt, Sharon King, Doug Larson, Amy McConeghey, Gary McDermitt, Brian McDermott, Bill McKee, Tom Melton, Ron Marolf, Greg Menke, Kevin Merryman, Brent Nagen, Dan Pittman, John Pladsen, Mark Sheets, Anthony Sherman, Jeff Smith, Andy Stapleton, Bill Van Rossum, Jason Walker, Scott Ward, Judson Wilmott, Melissa Winterstien, Ray Zeliadt

1996 - Ammar Al-Ojaili, Scott Anselme, Shane Baker, Kevin Beaulieu, Thomas Becker, Russ Bertrand, Rich Brumm, Yuan Chin, Darren Conlee, Shawn Dziedzic, Eric Ekstrand, Lance Elliott, Erick Eshelman, Todd Goodrich, Michael Halbur, Troy Hodapp, Kim Hubbard, Rod Johnson, Craig Kolacia, Jeremy Lux, Todd McCollough, Curtis McDowell, Bryan Michal, Matt Miller, Melinda Packebush, Kowk-Chu Pang, Nate Pearson, Stephanie Rohler, Bryan Schnurr, Kirsta Scranton, Paul Solberg, Amy Stairs, Phillip Stephenson, Chad Terry, Aaron Tubbs, Rose Marie VanZandt, Mike Wallis, Joel Waltz, Brian Wells, Ted Willis, Stacy Zerr

1997 - Said Almaawali, Tom Binder, Troy Blizzard, Jason Brown, Brian Check, Tim Chipman, Mike Cooper, Kevin Dalager, Chad Derus, Beth Duyvejonck, Shawn Dziedzic, Seth Elgin, Joe Fisher, Chris Fleshner, Mike Friesth, Darin Hage, Michael Hass, Tom Heger, Sarah Hellman, Mark Hoenk, Matt Huggins, John Hyun, Walt Jackson, Michael King, Gregory Kinser, Chad Kirby, Aaron Knepel, Matt Koenen, Colleen Ladd, D.H. Gabriel Lau, Joe Lauritson, Kevin Lex, Jeff Manning, Jeremy Manning, Jim Martin, Jamey Meints, Scott Meldrum, Scott Mortensen, Craig Moss, Chad Nelsen, Pete Nielsen, Ben Nikolin, Chris Obrecht, Kevin Ott, Brad Perkins, Chris Pfeifer, Eric Roitsch, Brad Sanders, Travis Schwartz, Robby Schwarzenbach,

Mark Simbrowsky, Eric Simon, Troy Smothers, Angie Snyder, Joel Stueland, Jason Thomas, Bomb Topark-Ngarm, Doug Waldeier, Tim Wong

1998 - Karmyn Babcock, Dan Baxter, Jennifer Bleigh, Nicole Buscher, Adrianne Cline, Josh Coppes, Clayton Cubbage, Aaron DeCamp, Jason DeStigter, Dale Drent, Dale Even, Aaron Gordon, Jeff Hammer, Matthew Harrington, Charlie Harris, Tyler Harris, Rodney Hintz, Marc Hughes, Matt Jepsen, Dan Keagle, Ryan Kipp, Ryan Krogstad, Chris Krumwiede, Ann Larson, Chad Layland, Mario Leuzzi, Kevin McClain, Greg Mitchem, Ryan Moore, Shawn Moser, Luke Naughton, Brent Nielsen, Corey Nook, Cole Philips, Casey Port, Dan Pottratz, Jason Rechkemmer, Brandon Reynolds, Jamie Rich, Jennifer Rusk, Matt Ryan, Frank Sarno, Alisha Schmitz, Jonathan Schiefer, Brian Shattuck, Eric Sill, Stacy Slater, Chris Smith, Matt Smith, Chris Stewart, Mark Stoller, Holly Streeter-Schaefer, Khim-Leong Tan, Craig Tobin, Chad VanRheenen, Steve Watson, George White, Darrin Wirt, Kirk Wischmeyer, Jon Wolff, Han-Meng Woo, Siew-Chin Yeong

1999 - Jeff Andrews, Ken Bronson, Greg Burda, Cheryl Carlson, Kevin Charlson, Brandon Christiansen, Rich Clark, Jeremy Cortesio, Brian David, Andrew Earhart, Steve Edwards, Aron Frakes, Brian Gaul, Azmi Ghozi, Tara Gleason, Cortney Graber, Matt Gumm, John Halloran, Matt Hamilton, Mike Harryman, Tara Henson, Steve Heyne, Corey Higgins, Shawn Holmes, Aaron Homan, Todd Kamp, Travis Kock, Travis Kuehner, Scott Kutchen, A.J. Loss, Ben Lovin, Chris McNamara, Aaron Miller, Matt Miller, Rich Montague, Sam Nanfito, Vijay Narayanan, Michael Nelson, Ryan Nelson, Garrett Nordyke, Katie Pacholski, Jeff Penning, Tracy Petricka, Quentin Platt, Jason Schuster, Dustin Schwake, Aimee Seivert, Dave Smith, Jenny Spence, Darin Stevenson, Ted Teegarden, Brian Teeters, Jamella Tolbert, Tim Tometich, Jason Vorwald, Wing-Kei Wong, Alicia Worden

2000 - Derik Aido, Jon Altes, Chad Bassman, Travis Benson, Jamie Beyer, Vanessa Brandt, Mike Callahan, Adam Cameron, Chris Dudding, Hudsadin Eamsherangkul, Todd Edsall, Judith Ehmer, Todd Friemel, Melony Gibbs, Steve Golumbeck, Brian Hedgren, Ryan Heier, Matt Hillis, Robert Hostetler, Brandon Jones, Eric Kaufman, Nathan Kirstein, Jeff Knepper, Emily Kunz, Hoon-Hong Lee, Mark Leusink, Andy Lundy, Todd Majeres, John Maranowicz, Jeffrey Martin, Mike McCoy, Matt McKinney, Jon Merk, Ben Merta, Valarie (Bullard) Meyer, Katie Minter, Stephanie Morrison, Adam Papesh, Ryan Peterson, Pat Prediger, Matt Proctor, Dominic Punelli, Nate Purdy, Chad Rafoth, Matt Ralston, Lindsay Sauer, Ross Schaefer, Ron Stafford, Dave Swies, Bruce Timmons, Paul Tremmel, Brandon Valdez, Jay Wavering, Eric White, Jason Willis, Nick Wolf, Hannah Wooledge

2001 - Heather Adams, Ben Bruns, Heather Burns, Chris Clausen, Scott DeYoung, Charles Dyxin, Dave Flemmer, Chad Goddard, Ben Golding, Kasey Harken, Corey Harms, David Herrema, Travis Hodapp, Kevin Hodgson, Megan Hurd, Brian Irlbeck, Jaquelyn Junginger, Lee Kaiser, Nic Kaminski, Angela Kelly, Jeff Knutsen, Adam Kouri, Chris Krieg, Scott Kueter, Matthew Larson, Celeste Lewis, James Lutter, Andrew Manatt, Ryan May, Ibrahime M'Bbapanza,, Jason Miner, Rik Myhre, Steve Nelson, Brian Overbaugh, Dave Peterson, Ross Piper, Brian Pittman, Kyle Rahe, Jon Richardson, Nic Riesenberg, Meaghan Ryan, Rodney Sanders, Jeff Scandrett, Dale Schwager, Andy Smith, Loren Snyder, Shamus Stephens, Justin Strahan, Craig Streit, Barry Sullivan, Aaron Toney, Elizabeth Valdez, Jonathan Vandekrol, Matt Vander Pol, Matt Vanheiden, Krista Viet, Tim Vogel, Kevin Walker, Jason White, Rory Wiebel, Elizabeth Wood

2002 - Casey Ackermann, Nicholas Aldrich, Jeffrey Austin, Adam Boelman, Kyle Bolejack, Alex Bonzer, Timothy Bouska, Douglas Bristol, Timothy Callahan, Luke Czerwinski, Russell Dodson, Josh Dooley, Christopher Doyle, Alan Elder, Jason Engel, Phillip Engler, Darwis Fensury, Nicholas Ford, Brandon Frideres, Gretchen Frietsche, Aaron Garner, Jonathan Hand, Michael Hazel, Edward Heggen, Kelly Henderson, Joshua Hermsen, Peter Huey, Matthew Jesson, Erik Johansen, Kevin Kain, Issa Karadsheh, Kathleen Kies, Bradley Klinkefus, Christopher Kreftmeyer, Melissa Leek, Nicholas Leimer, Terry

Leonard, Bradley Linman, David McLatchie, Theodore Meiners, Paul Meyer, Elizabeth Monaghan, Wesley Murdoch, Michael O'Connor, Adam Pfab, Adam Petersen, Brian Pollock, Yiendra Porayouw, Aaron Ripple, William Roozenboom, Michael Schaefer, Rolando Schrupp-Rivero, Brandon Schulte, Shadrach Sporaa, Jamie Stanley, Diane Strawn, Joseph Strub, Bradley Sullivan, Don Swanson, Matthew Thompson, Cynthia Twedt, Brian Van Arendonk, Jaron Vos, Jason Wells, Jason Wiener, Matthew Wiener, Tim Williams, Adam Wood

2003 - Zachary Allen, D Bradley Barickman, Joseph Beumer, Nathan Blomme, Adam Boeckmann, Matthew Bosman, Tylor Bottorff, Phillip Burgmeier, Brant Carr, Nicholas Carter, Ryan Cheeseman, Justin Clausen, Chad Coalbank, Edward Cox, Barry Determan, Isaac Drew, Eric Farley, Jodel Fesenmaier, Brian Fliehler, Nathan Franje, Tony Fucinaro, Cory Gapstur, Nathaniel Hagberg, James Hapke, Nathan Harty, Michelle Heikens, Derek Hemphill, Joshua Herman, Perry Hines, Sarah Homan, Benjamin Hott, Hilary Jensen, Quincy Jones, Brian Kacmarynski, Nicholas Kopp, Brad Kunz, Justin Lechtenberg, Ryan Llewellyn, Alan Manyin, Julie Martin, Jennifer McMinemee, Walter Nashert IV, Cheri Nordstrom, Nicholas Obbink, Ananto Prasetyo, Joseph Prosek, Tyler Raun, Phillip Ross, John Ryan, Scott Schiftlett, Joel Schimmer, Kyle Schott, Korey Schroeder, Grant Sjostrom, Adam Smith, Eric Soenksen, Joshua Staudt, Nathan Summers, Cody Tacke, Joseph Tripp-Rieks, Edna Vazquez, Matthew Van Loon, Ryan Weller, Michael Wolfe, Yew-Choong Wong, Christopher Wood, James Young, Jr.

2004 - David Audino, Nurhidayah (Hida) Azmy, Anthony Bernhard, Brian Bishop, Matthew Bockes, Brent Boots, Justin Brown, Nathan Burgod, Rusty Chamberlain, Andrew Cilio, Michael Clayburg, Alexis Coen, Kassi Colman, Melissa Conley, Eric Cowles, Timothy Davis, Ross Dix, Ryan Edwards, Benjamin England, Ariana Wright Gleisberg, Justin Grager, Anthony Grieser, Angela Guggisberg, Ryan Hawkins, David Hayek, Jacob Hotchkiss, Jason Hulsebus, Sarah Hundley, Jared Jones, Ryan Kauffman, Brett Ketelsen, Bradley Kruse, Mark Lee, Louisa Lorensen, Craig Montz, Jordan Muller, Andrew Munsch, Thomas Osier, Joshua Payne, Leslie Peterson, Matthew Madison, Clinton Rhoads, Jason Romero, Anthony Scully, Donavan Smith III, James Smith, Russell Smith, Mark Snyder, Daniel Solem, James Sparks, Hui-Tong Su, Thomas Swinning, Peter Taylor, Richard Tucker, Sara Van Roekel, Shane Weis, Brian Wessels, Alan White, Nicholas Darrell Williams, Nicholas David Williams, Geoffrey Zehnder.

2005 - Mark Anthony, Brian Blank, Michael Boettcher, Scott Borgerding, Benjamin Bunge, Richard Corcoran, Brian Crow, Jamie Crubaugh, Jeffrey Elkins, Justin Fisher, Gareth Fleischer, Andrew Grubb, Steven Halverson, Julie Halvorson, Joseph Harris, Matthew Hornibrook, Eric Jestrab, Minas Kavallieros, Brian Klemme, Nicholas Lauters, Kerry Megraw, Tyler Meyerholz, Kent Mickelson, Joshua Miltenberger, Tyrel Murray, Justin Olson, Cliff Plymesser, Jeffrey Quinn, Michael Richardson, Bryan Sandvig, Clifford Schafer, Kirt Schmidt, Dominique Selgrade, Joshua Thrap, William Treasure, Brett Walker, Chad White, Gary Wickering, Luke Wilgenbusch, David Wilson, Crystal Wojtysiak

2006 - Stephen Ahlers, Anthony Alleman, Robert Amundson, Nicholas Andera, Jerad Andersen, Nicholas Andersen, Nicholas Bement, Jason Bersch, Anastasia Bitker, Jason Brekken, Russell Bollig, James Bowers, Josh Braby, Aaron Brace, Carl Brush, Aaron Bunge, Joseph Butler, Scott Cornelius, Michael Cramer, Kenneth Dittus, Jonathan Doll, Case Doorn, Ryan Drapeaux, Philip Emanuel, Anthony Erickson, Ryan Ferris, Curt Gillum, Glen Gleason, Ryan Haaland, Ryan Hackenmiller, Richard Harris, Scott Hildebrand, Chad Hotovec, Jake Humphreys, Eric Johnson, Derek Juhl, Jamie Knox, Jacob Kress, James Kurth, Benjamin Lehan, Jonathan Lewton, Kevin Lind, Tyler Manker, James Matzinger, Patrick McClain, Ryan McGuire, Jeffrey McKee, Peter Mercuris, Nathan Mittag, Jeffrey Moellers, Craig Montgomery, Adam Nelson, Lincoln Nichols, Dustin Nordell, Matthew Olberding, Nels Overgaard, David Parr, Zachary Peterson, Joshua Pick, Nathan Pilcher, David Rahe, Tyler Ramaekers, Eric Rasmussen, Gina Riesberg, Nicholas Rivera, Chad Schmidt, Bradley Schoch, Daniel Seiler, Jonathan Shepherd, Aaron Smith, Derek Snead, Andrew Stoulil, Luke Strahan, Brett Templeton, Nicholas Tjaden, Justin VanCoughnett, Andrew Wagner, Dustin Waters,

Colin Waits, Cole Weaver, Arlo Wieczorek, Michael Woolley

2007 - Matthew Barchman, Brian Boekholder, Nicholas Caratelli, Lucas Clausen, Adam Clemons, Brad Corkrean, Adam Dillavou, Adam Douglas, Lee Ebel, Jason Eveland, Christopher Fredericksen, David Frischmeyer, Daniel Frohardt, Joshua Gaube, Wayne Gordon, Rondal Hale, Brandon Halsey, Samuel Hoffman, Jesse Howe, Ashlynn Hunter, Kakeru Iikubo, Kelsey Johnson, Aaron Kendall, Thomas Kinsinger, Jason Knipp, Andrew Kobusch, Kisten Koch, Klint Kruse, Jessica Kundinger, Anthony Latoria, Eric Lindquist, Caleb Lyon, Tyler Mark, Jerry Mihovilovich, Geoffrey Miller, Kyle Mueller, Jonathan Nack, Jacob Nollin, Kelsey Peverill, Eric Poland, Clifton Rhoads, Andrew Rotta, Casey Schafbuch, Christopher Schweers, John Seidl, Tyler Sparks, Zachary Steffen, Gabriel Stofferahn, Mark Sullivan, Christopher Thennes, Richard Trower, Nicholas Veldman, Benjamin Verdon, Andrew Vogel, John Vonnahme, Lucas Wall, Adam Ward, Daniel Ward, Matt Weller, Jesse Werner, Joshua Wiederholt, Brandon Wollery, Douglas Woolever, Benjamin Wright, Carl Zeilger

2008 - Randall Andrews, Loren Bouchard, Adam Brainerd, Michael Christy, Shawn Corey, Shawn Culhane, Dustyn Curran, Adam Drake, Scott Ewell, Vincent Fadden, Zachary Finch, Jonathon Gapinski, Robert Greiner, Troy Greve, Michael Hameister, Jacob Harris, Brian Harry, Amanda Hausman, Matthew Haverkamp, Samuel Heinselman, Kevin Heisdorffer, Matthew Hendrickson, Anders Hurd, Justin Jackson, Renoj Jacob, Timothy Jennett, Brian Johnson, Derrick Jungers, Ben Kruse, Grant Lovin, Zachary Loy, Matthew Luck, Lemuel Mamuya, Lee Marbach, Joshua Markel, Aaron Martens, Cory McDermott, Tyler Millard, Jason Moritz, Andrew Norton, Katie Olson, Ryan Paul, Paul Pestel, Andrew Petersen, Bruce Pomerleau, Kelsey Powell, Cole Qualheim, James Rhynas, Drew Roberts, Paul Roggenbuck, Robert Rypma, Bryan Schmidt, Gregg Schmidt, Garrett Schroeder, Scott Schurman, Matthew Schwark, Robert Scott, Andrew Siegrist, Jeffrey Soseman, Edward Sowder, Jesse Spain, Mitchell Stoulil, Brian Streeper, Brian Sullivan, Jeffrey Theis, Robert Tiedeman, Seamus Turnbull, Jon Van Erkel, Cody Weber, Joshua West, Thomas Wetmore, Joshua Wise, Dustin Worthington, Adi Zhuravel, Alexander Zikra

2009 - Sean Anderson, Luke Barnum, Nicole Bell, Anthony Blasco, Ryan Bolinger, Ryan Bowers, Clark Bruellman, Sean Brummer, Noemi Calderon, Lucas Cassidy, Timothy Corcoran, Christopher Daniels Nicholas Dekovic, Hermes Diaz, Jeremy Edmondson, Alex Egeland, Scott Elliott, Jeffrey Faine, Brenton Formanek, Michael Grim, Joben Grimmius, Kyle Grunder, Nathan Hamm Matthew Harder, Christopher Heemstra, Mike Hopp Samuel Jennett, Alexandre Jensen, Erik Johansen John Kelly, Gregory Knudsen, Matthew Koester, Dave Kubik, Matthew Larsen, Joel Loes, Brian Madsen, Matthew Magnuson, Jessica Meredith Luke Miller, James Nielsen, Austin Norberg, Jeffrey Peterson, Luke Peterson, Eric Peterson, Ryan Peterson, Brian Phipps, Ryan Pigneri, Garett Plotts Edward Predl, Derek Rehm, Bradley Reid, Megan Schlag, Zachary Smith, Brian Steffens, Derek Stickfort, Landon Streit, Daniel Stukenholtz, Terry Tipp, Jerry Van Oort, Kyle Weller, Chase Westercamp, Scott Williams

2010 - Michael Berg, Clark Bowden, Peter Cade, Camron Collier, Scott Cutler, Peter Cutler, Luke Daugherty, Austin Davis, Jake Fuller, Ted Gerber, David Hanks, Trevor Hanus, Benjamin Harriman Austin Hennessey, Jimmy Hilton, Matthew Karns Keith Kimsey, Jonathan Klemm, Chad Lane, Brian Leitch, Andrew Lowthorp, Mitchell McColloch, Ryan McGreger, Brad Meyer, Brandon Montgomery, Jacob Moss, Arren Nguyen, Phillip O'Loughlin, Rowdy Ogrady, Nick Olson, Bradley Paulsen, Nicholas Roberts, Ewatt Roberts, Christopher Rosso, Ryan Shabino, Ryan Sievers, Nathan Steffes, Nathaniel Stevenson, Taylor Theulen, Matt Warner, Steve Wiitanen, Tanner Wilks, Nathan Wolfe, Nicholas Wolff, Matthew Zaletel

ERECTOR SET CLASS LISTS

Master's and Doctoral degree graduates

Year	Graduates (105 MS; 10 PhD)
1985	Scott Higgins (MS-1)
1986	Mark Nelson (MS-2)
1987	None
1988-1989	Yash Anantharaj (MS-3); Mohd Bachh (MS-4); Swagata Guhathakurta (MS-5); Steve Kaspar (MS-6); Carlos Moreno (MS-7); Fred Rahbar (MS-8); Mark Wagner (MS-9)
1990	Esam Badawi (MS-10); Dave Harmelink (MS-11); Mike Hubers (MS-12); Chris Manning (MS-13); Steve Njos (MS-14); Muhkerjee Subhransu (MS-15)
1991	Tom DeVany (MS-16); Guillermo Recarte (MS-17); Chandrika Vardhan (MS-18); Surya Pidaparti (MS-19)
1992	Mohammad Asif (MS-20); Naresh Pallegar (MS-21); Yvan Rodriguez (MS-22); Cem Sahin (MS-23); Rifat Sonmez (MS-24)
1993	Kevin Behling (MS-25); Mike Orgler (MS-26); Salim Rajan (MS-27); Gad Roitman (MS-28); Virdi Gurvirinder (MS-29)
1994	Anslem Tirimanne (MS-30); Sheng-Jer (Daniel) Wu (MS-31)
1995	Sara (Birkland) Elliott (MS-32); Justina Erviritina (MS-33); Abie Ladson (MS-34); Dave Harmelink (PhD-1)
1996	Rich Busch (MS-35); Eric Carlson (MS-36); Carter Dedolph (MS-37); Lance Elliott (MS-38); Beth Hartmann (MS-39); Laura McCollough (MS-40); Arcot Naresh (MS-41); Brad Sonnenberg (MS-42); Kelly Tilford (MS-43); Robert Weddall (MS-44); Rifat Sonmez (PhD-2)
1997	Bryan Cawley (MS-45); Todd Sirotiak (MS-46); Faramarz (Fred) Rahbar (PhD-3)
1998	Ahmed Al-Hammadi (MS-47); Serhan Celik (MS-48); Brian Ellsworth (MS-49); Chris Nelson (MS-50); Steve Pigneri (MS-51); Khim-Liong (Lawrence) Tan (MS-52)
1999	Matt Fagen (MS-53); Branden Stephan (MS-54); Siew-Chin Yeong (MS-55)
2000	Karmyn Babcock (MS-56); Judith Ehmer (MS-57); D.H. Gabriel Lau (MS-58); Chun Li (MS-59); Iwan Pribadi (MS-60); Hernando Quintero (MS-61); Jeff Stewart (MS-62)
2001	Ozdemir Cetin (MS-63); Tarek Elmisalami (MS-64); Zhili Gao (MS-65); Dongying (Judy) Jiang (MS-66); Cynthia Patterson (MS-67); Syuin-Chet Tee (MS-68); Tarek Elmisalami (PhD-4)
2002	Jamie Beyer (MS-69); Dong Chen (MS-70); Aldona Jelinek (MS-71); Melissa Leek (MS-72); Jingxi (Cece) Li (MS-73); Lifeng Li (MS-74); Michael McArtor (MS-75)
2003	Mauricio Arbelaez (MS-76); Stephen Frank (MS-77); Jacob Thorius (MS-78)
2004	Kiran Ankanahalli-Shivaram (MS-79); Jin-Wook Chung (MS-80); Manop (Lim) Kaewmoracharoen (MS-81); Seonghoon Kim (MS-82); Deepak Makarla (MS-83); Tolga Meco (MS-84); Mary Rukashaza (MS-85); Diane Strawn (MS-86); Augusto Canales (PhD-5); Zhili Gao (PhD-6)
2005	James Nelson (MS-87); Hariharan Pattabhiseetharaman (MS-88); Cliff Plymesser (MS-89); Nolan Raadt (MS-90); Edna Vazquez (MS-91); Nicholas Williams (MS-92); Zheng Zhong (MS-93)
2006	Nathaniel Hagberg (MS-94); Eric Jestrab (MS-95); JamesTometich (MS-96); Dong Chen (PhD-7)
2007	Mayur Bisani (MS-97); Cole Landau (MS-98); Darren McWhirt (MS-99)
2008	Mohammed Al Qady (MS-100); Asish Seeboo (MS-101); Islam El-Adaway (PhD-8); Todd Sirotiak (PhD-9)
2009	Cory McDermott (MS-102); Manop Kaewmoracharoen (PhD-10)
2010	John Owens (MS-103); Tong Wang (MS-104); Aaron Zutz (MS-105)

ERECTOR SET ALUMNI INDEX BY LAST NAME

Abubakar, Aliyu	BS1979
Ackermann, Casey	BS2002
Adam, John	BS1980
Adam, Pierre	BS1989
Adams, Heather	BS2001
Adams, Richard	BS1976
Agnes, Robert	BS1972
Ahlers, Stephen	BS2006
Ahrenholtz, Christopher	BS1994
Aidoo, Derick	BS2000
Al Qady, Mohammed	PhD2008
Al-Hammadi, Ahmed	MS1998
Al-Khayyat, Ahmad	BS1995
Al-Ojaili, Ammar	BS1996
Al-Tai, Ali	BS1985
Albertsen, David	BS1985
Aldrich, Nicholas	BS2002
Alexander, Richard	BS1978
Aliwat, Ahmad	BS1981
Alleman, Anthony	BS2006
Allen, Zachary	BS2003
Allison, Richard	BS1980
Alm, Don	BS1968
Alm, Kirk	BS1995
Almaawali, Said	BS1997
Altes, Jonathan	BS2000
Althoff, Mark	BS1978
Alvestad, Dennis	BS1973
Amento, Steven	BS1978
Amundson, Robert	BS2006
Anantharaj, Yashavanth	MS1989
Andera, Nicholas	BS2006
Andersen, Curt	BS1981
Andersen, Jerad	BS2006
Andersen, Nicholas	BS2006
Anderson, Brian	BS1981
Anderson, Charles	BS1992
Anderson, Darrell	BS1979
Anderson, David	BS1979
Anderson, Greg	BS1984
Anderson, Hannah	BS2000
Anderson, Mark	BS1980
Anderson, Rick	BS1973
Anderson, Rick	BS1981
Anderson, Roger	BS1982
Anderson, Sean	BS2009
Anderson, Trevor	BS1992
Andrews, Jeff	BS1999
Andrews, Randall	BS2008
Ankanahalli-Shivaramu, K. B.	MS2004
Ansari, Kouros	BS1983
Anselme, Scott	BS1996
Anthony, Mark	BS2005
Arbalaez, Mauricio	MS2003
Archer, Thomas	BS1987
Armstrong, Gregory	BS1989
Asif, Mohammad	MS1992
Ask, Andrew	BS1964
Atcheson, Gerald	BS1993
Audino, David	BS2004
Auer, Jason	BS1993
Austin, Jeffrey	BS2002
Azmy, Nurhidayah	BS2004
Babb, Walter	BS1989
Babcock, Karmyn	BS1998, MS2000
Bach, Mohd	MS1989
Backman, James	BS1974
Badawi, Essam A	MS1990
Badding, Nicholas	BS1982
Bailey, Kurt	BS1988
Bailey, Matthew	BS1982
Baker, Shane	BS1996
Bales, Rooster	BS1979
Ball, Darrell	BS1967
Ball, Mark	BS1982
Barchman, Matthew	BS2007
Barickman, D. Bradley	BS2003
Barkhurst, Gary	BS1981
Barkley, David	BS1980
Barnes, Paul	BS1985
Barnum, Luke	BS2009
Barrett, Dean	BS1974
Barry, Douglas	BS1977
Barstad, Jon	BS1983
Bartilson, David	BS1977
Bassman, Chad	BS2000
Baughman, Mark	BS1990
Baumann, Steven	BS1992
Bausman, Dennis	BS1971
Baxter, Daniel	BS1998
Beal, James	BS1989
Bearson, Kent	BS1982
Beaulieu, Kevin	BS1996
Beck, Laurence	BS1979
Becker, Thomas	BS1996
Becker, Timothy	BS1994
Behling, Kevin	BS1990, MS1993
Behling, Robert	BS1967
Beier, Anthony	BS1993
Beisler, Bruce	BS1981
Bell, Mark	BS1979
Bell, Nicole	BS2009
Bell, Steven	BS1981
Bement, Nicholas	BS2006
Benge, James	BS1981
Benike, Aaron	BS1995
Benike, James	BS1972
Benike, John	BS1978
Benjamin, Elizabeth	BS1986
Benkert, Andrew	BS1995
Benson, Travis	BS2000

Berg, Michael	BS2010
Berkland, James	BS1970
Bernhard, Anthony	BS2004
Berry, Todd	BS1989
Bersch, Jason	BS2006
Bertrand, Russell	BS1996
Beumer, Joseph	BS2003
Beyer, Jamie	BS2000, MS2002
Bezanis, Brian	BS1992
Bickert, Roderick	BS1980
Bickert, Timothy	BS1983
Biere, Dan	BS1982
Binder, Kevin	BS1986
Binder, Thomas	BS1997
Birkland-Elliott, Sara	MS1995
Bisani, Mayur	MS2007
Bishop, Brian	BS2004
Bitar, Ali	BS1980
Bitker, Anastasia	BS2006
Bjork, Lawrence	BS1975
Bjorklund, Craig	BS1981
Blahnik, Robert	BS1972
Blank, Brian	BS2005
Blank, Brice	BS1994
Blasco, Anthony	BS2009
Bleigh, Jennifer	BS1998
Blizzard, Troy	BS1997
Blomme, Nathan	BS2003
Blount, Stephen	BS1977
Blunck, Scott	BS1980
Boat, Steven	BS1984
Bockes, Matthew	BS2004
Boeckmann, Adam	BS2003
Boedeker, Ralph	BS1982
Boekholder, Brian	BS2007
Boelman, Adam	BS2002
Boerschel, Bryan	BS1980
Boesenberg, Brian	BS1978
Boettcher, Michael	BS2005
Bokaie, Nader	BS1987
Bolchazy, Allan	BS1989
Bolejack, Kyle	BS2002
Bolinger, Ryan	BS2009
Bolstad, Arlan	BS1987
Bontrager, Michael	BS1982
Bonus, Kenneth	BS1985
Bonzer, Alex	BS2002
Boone, Timothy	BS1982
Boots, Brent	BS2004
Borgerding, Scott	BS2005
Borgo, William	BS1990
Boring, Gary	BS1986
Born, Stephanie	BS1996
Borns, John	BS1972
Borns, Thomas	BS1979
Boschult, Mark	BS1979
Bosman, Matthew	BS2003
Bosshart, David	BS1980
Bosshart, James	BS1978
Bosshart, Steven	BS1982
Boswell, Robert	BS1974
Bothwell, Gretchen	BS1982
Bottorff, Tylor	BS2003
Bouchard, Loren	BS2008
Boucher, Michael	BS1979
Bouska, Timothy	BS2002
Boutwell, James	BS1980
Bowden, Clark	BS2010
Bowers, James	BS2006
Bowers, Ryan	BS2009
Braby, Joshua	BS2006
Brace, Aaron	BS2006
Brady, James	BS1981
Brady, Timothy	BS1981
Braesch, Steven	BS1977
Brainerd, Adam	BS2008
Brandes, Douglas	BS1972
Brandon, Rick	BS1978
Brandt, Michael	BS1979
Brandt, Steven	BS1987
Brcka, Kent	BS1995
Breckon, Karl	BS1980
Brekken, Jason	BS2006
Brennan, John	BS1988
Breon, Crystal	BS2005
Bretthauer, Scott	BS1982
Brewer, Brian	BS1991
Bridger, Robert	BS1985
Brill, Gary	BS1990
Brindle, Steven	BS1994
Brink, Kevin	BS1988
Bristol, Douglas	BS2002
Bronson, Kenneth	BS1999
Brooks, David	BS1974
Brostrom, Darrel	BS1979
Brouillette, Bret	BS1983
Brown, Jason	BS1997
Brown, Justin	BS2004
Brown, Timothy	BS1986
Bruce, Daniel	BS1995
Bruellman, Clark	BS2009
Brumm, Richard	BS1996
Brummer, Sean	BS2009
Bruns, Ben	BS2001
Brush, Carl	BS2006
Buchanan, Todd	BS1988
Buchwald, Donna	BS1984
Buenneke, Jon	BS1984
Bunge, Aaron	BS2006
Bunge, Benjamin	BS2005
Bunner, Chad	BS1994
Burbank, Keith	BS1976
Burda, Gregory	BS1999
Burgmeier, Phillip	BS2003
Burgod, Nathan	BS2004
Burgus, David	BS1994
Burk, Amy	BS1995
Burke, David	BS1989
Busch, Richard	BS1990, MS1996
Buscher, Nicole	BS1998
Buscher, Russell	BS1989
Bush, Al	BS1979
Bussard, Kevin	BS1985
Butler, Joseph	BS2006
Buttler, Lynnette	BS1992
Butts, Kevin	BS1984
Buyert, John	BS1969
Byers, Bruce	BS1963
Caboth, Cragon	BS1977

Cade, Peter	BS2010
Cahalan, Scott	BS1984
Cahill, Daniel	BS1986
Cahill, John	BS1974
Cain, Robert	BS1988
Calderon, Noemi	BS2009
Calderwood, William	BS1980
Callaghan, Robert	BS1985
Callahan, Michael	BS2000
Callahan, Timothy	BS2002
Calligan, Craig	BS1973
Cameron, Adam	BS2000
Campbell, Paul	BS1974
Campen, Greg	BS1988
Campos Lange, T. Monique	BS1981
Canales, Augusto	PHD2004
Canales, Augusto	PhD2004
Cantrell, David	BS1995
Caratelli, Nicholas	BS2007
Carlson, Eric	MS1996
Carlson, Greg	BS1985
Carlson, James	BS1980
Carlson, Jeffrey	BS1990
Carlstrom, J. Michael	BS1967
Carpenter, Michael	BS1981
Carper, Douglas	BS1980
Carr, Brant	BS2003
Carrigan, Scott	BS1995
Carroll, Michael	BS1976
Carsky, Joseph	BS1985
Carter, Nicholas	BS2003
Carter, Robert	BS1978
Casali, Kevin	BS1986
Casey, Michael	BS1980
Cassidy, Lucas	BS2009
Cawley, Bryan	MS1997
Celik, Serhan	MS1998
Cetin, Ozdemir	MS2001
Chadima, Jeffrey	BS1978
Chamberlain, Rusty	BS2004
Chandler, Paul	BS1995
Chapman, Jeffrey	BS1989
Charlson, Kevin	BS1999
Check, Brian	BS1997
Cheeseman, Ryan	BS2003
Chen, Dong	MS2002, PhD2006
Chen, Dong	PhD2006
Chicoine, Kenneth	BS1982
Chipman, Timothy	BS1997
Chong, Hock	BS1987
Christensen, John	BS1977
Christensen, Mark	BS1979
Christensen, Ronald	BS1971
Christiansen, Brandon	BS1999
Christy, Michael	BS2008
Chung, Jin Wook	MS2004
Churchill, Brad	BS1994
Cicciarelli, Scott	BS1982
Cilio, Andrew	BS2004
Clancy, Jeffrey	BS1984
Clarahan, Randy	BS1981
Clark, Douglas	BS1989
Clark, Richard	BS1999
Clarke, Richard	BS1979
Clausen, Chris	BS2001
Clausen, Justin	BS2003
Clausen, Lucas	BS2007
Clausen, Steven	BS1993
Clay, Jennifer	BS1995
Clayburg, Michael	BS2004
Clemens, Kevin	BS1986
Clement, Lori	BS1984
Clemons, Adam	BS2007
Cline, Adrianne	BS1998
Coalbank, Chad	BS2003
Coe, Eric	BS1985
Coffee, Douglas	BS1979
Coffman, James	BS1971
Cole, Randy	BS1981
Collier, Camron	BS2010
Collins, Earl	BS1991
Collins, Edward	BS1970
Colman, Kassi	BS2004
Colton, Jeff	BS1995
Coluccy, Michael	BS1984
Conkin, Gary	BS1986
Conlee, Darren	BS1996
Conley, Daniel	BS1982
Conley, Melissa	BS2004
Conlon, David	BS1978
Conner, Randall	BS1975
Connor, Charles	BS1980
Coon, Duane	BS1979
Cooper, Brent	BS1991
Cooper, Jim	BS1983
Cooper, Michael	BS1997
Coppes, Joshua	BS1998
Corcoran, Richard	BS2005
Corcoran, Timothy	BS2009
Corey, Shawn	BS2008
Corkrean, Brad	BS2007
Cormicle, Larry	BS1978
Cornelius, Scott	BS2006
Cortesio, Jeremy	BS1999
Cotter, Anthony	BS1975
Cousins, Roger	BS1975
Cowger, Lisa	BS1986
Cowles, Eric	BS2004
Cox, Edward	BS2003
Cox, Robert	BS1984
Coziahr, David	BS1984
Coziahr, Thomas	BS1984
Cramer, Mark	BS1979
Cramer, Michael	BS2006
Cramer, Robert	BS1990
Cranston, Scott	BS1983
Crawford, John	BS1986
Creath, James	BS1987
Cripps, James	BS1983
Crist, Gary	BS1977
Crookshank, Jason	BS1993
Crosser, Scott	BS1982
Crow, Brian	BS2005
Crubaugh, Jamie	BS2005
Crumpton, Jon	BS1978

Cubbage, Clayton	BS1998
Culhane, Shawn	BS2008
Culp, Daniel	BS1989
Culp, Kevin	BS1982
Cummings, Randy	BS1992
Cunz, Heather	BS1993
Curran, Dustyn	BS2008
Currie, Kevin	BS1984
Cutler, Peter	BS2010
Cutler, Scott	BS2010
Czapanskiy, Gregory	BS1980
Czerwinski, Luke	BS2002
Daher, Wadih	BS1986
Dahlman, Joseph	BS1970
Dakovich, Milton	BS1977
Dakovich, Robert	BS1982
Dalager, Kevin	BS1997
Daniels, Christopher	BS2009
Danielsen, Bryan	BS1985
Daugherty, Luke	BS2010
David, Brian	BS1999
Davidson, Judd	BS1991
Davis, Austin	BS2010
Davis, James	BS1979
Davis, Robert	BS1991
Davis, Scott	BS1980
Davis, Thane	BS1981
Davis, Timothy	BS2004
Davison, Thomas	BS1991
Dawson, Paul	BS1979
Daxon, Steven	BS1987
Day, Stephen	BS1990
Deal, Guy	BS1977
Dean, James	BS1975
DeCamp, Aaron	BS1998
Decker, Kevin	BS1984
Dedolph, Jr., Carter T	MS1996
DeGroot, David	BS1992
DeGroote, Stephen	BS1987
Dehart, Ronald	BS1989
Dehmlow, Darrin	BS1991
DeJong, Matthew	BS1995
Dekovic, Nicholas	BS2009
Demore, Richard	BS1964
DeNardi, Dean	BS1982
DeRose, Kenneth	BS1988
Derus, Chad	BS1997
Desai, Prashant	BS1991
Destigter, Douglas	BS1981
DeStigter, Glenn	BS1966
DeStigter, Jason	BS1998
Determan, Barry	BS2003
Detlefsen, John	BS1972
DeVany, Thomas	BS1990, MS1991
DeYoung, Scott	BS2001
Diaz, Hermes	BS2009
Dickerson, Timothy	BS1978
Dickinson, David	BS1977, MS1980
Dickinson, James	BS1974
Dillavou, Adam	BS2007
Dillavou, Jay	BS1983
Dillavou, Timothy	BS1981
Dillin, Larry	BS1978
Dillon, Ralph	BS1979
Dimond, David	BS1986
Dingwall, Jeffrey	BS1983
Distefano, Rhonda	BS1983
Dittus, Kenneth	BS2006
Dix, Larry	BS1988
Dix, Ross	BS2004
Dixon, Scott	BS1981
Dodd, Neal	BS1977
Dodson, Russell	BS2002
Dohlman, Dwight	BS1982
Doll, Jonathan	BS2006
Donner, Steven	BS1984
Dooley, Josh	BS2002
Dooney, Lee	BS1985
Doorn, Case	BS2006
Doss, Robert	BS1982
Douglas, Adam	BS2007
Douglas, Peter	BS1978
Downing, Steven	BS1976
Doyle, Christopher	BS2002
Doyle, Joel	BS1983
Drake, Donald	BS1988
Drapeaux, Ryan	BS2006
Draper, Scott	BS1991
Drees, Kirk	BS1981
Drent, Dale	BS1998
Drew, Isaac	BS2003
Driskell, Melissa	BS1995
Drury, Jeff	BS1990
Dudding, Christopher	BS2000
Duff, Leslie	BS1970
Duffy, Bryan	BS1977
Duke, David	BS1980
Duke, Dennis	BS1979
Dumdei, Victoria	BS1982
Dummermuth, Chris	BS1978
Dusil, Randall	BS1980
Duyvejonck, Beth	BS1997
Dvorak, David	BS1973
Dyxin, Charles	BS2001
Dziedzic, Shawn	BS1996
Earhart, Andrew	BS1999
Eastburn, Geoffrey	BS1987
Ebel, Lee	BS2007
Eberhard, Kimberly	BS1983
Ebert, Keith	BS1984
Eckhoff, Philip	BS1972
Edmondson, Jeremy	BS2009
Edsall, Todd	BS2000
Edwards, Mickel	BS1984
Edwards, Ryan	BS2004
Edwards, Steven	BS1999
Egeland, Alex	BS2009
Egner, Mark	BS1990
Ehm, Jeff	BS1982
Ehmer, Judith	BS2000, MS2000
Ehrlich, Charles	BS1986
Ehrlich, Thomas	BS1986
Eich, William	BS1972
Eikanger, Steven	BS1995
Eilers, Heather	BS2001
Eipert, James	BS1992
Ekenberg, David	BS1975

Ekstrand, Eric	BS1996
El-Adaway, Islam	PhD2008
El-Zein, Ali	BS1988
Elder, Alan	BS2002
Elgin, Seth	BS1997
Eliasen, Mary	BS1990
Elkins, Jeffrey	BS2005
Ellgren, Todd	BS1985
Ellingson, Michael	BS1982
Elliott, Grant	BS1995
Elliott, John	BS1991
Elliott, Lance	BS1996, MS1996
Elliott, Scott	BS2009
Ellsworth, Brian	MS1998
Elmisalami, Tarek	MS2001, PhD2001
Elsner, Ronald	BS1978
Emanuel, Philip	BS2006
Enderson, George	BS1971
Engel, Amy	BS1984
Engel, Jason	BS2002
Engelbart, Steven	BS1973
Engelstad, Paul	BS1984
England, Benjamin	BS2004
England, James	BS1978
Engler, Phillip	BS2002
Engstrom, Donald	BS1977
Enserro, Elizabeth	BS1992
Ensley, Ronald	BS1993
Erb, David	BS1971
Erickson, Anthony	BS2006
Erickson, Bryce	BS1983
Ernst, Michael	BS1995
Ernster, Mike	BS1990
Ervitarini, Justina C	MS1995
Eshelman, Erick	BS1996
Espeset, Michael	BS1991
Evans, Jason	BS1974
Evans, John	BS1977
Evans, Patrick	BS1990
Evanson, Sarah	BS1997
Eveland, Jason	BS2007
Eveland, Kelsey	BS2007
Even, Dale	BS1998
Ewell, Scott	BS2008
Ewing, Jon	BS1986
Faber, Alexis	BS2004
Fabere, Scott	BS1978
Fadden, Vincent	BS2008
Fagen, Matthew	MS1999
Faine, Jeffrey	BS2009
Faktor, Bryan	BS1982
Fangman, Steven	BS1987
Faoro, William	BS1985
Farley, Alan	BS1989
Farley, Eric	BS2003
Fay, Joseph	BS1985
Feazell, George	BS1980
Fedler, Marcus	BS1994
Feilmeier, Ted	BS1977
Feller, Scott	BS1995
Ferguson, Steven	BS1988
Ferris, Ryan	BS2006
Fesenmaier, Jodel	BS2003
Fett, Robert	BS1977
Fetters, Amy	BS1996
Field, Loren	BS1981
Fields, Kim	BS1976
Fieweger, Thomas	BS1978
Fils, Gary	BS1979, MS1983
Finch, Zachary	BS2008
Finnerty, Thomas	BS1977
Fisher, Joseph	BS1997
Fisher, Justin	BS2005
Fisk, David	BS1995
Flannery, Darrell	BS1976
Flathers, Richard	BS1981
Flatland, Raymond	BS1973
Fleagle, Earl	BS1981
Fleagle, Scott	BS1985
Fleischer, Gareth	BS2005
Flemmer, David	BS2001
Flemming, Joseph	BS1986
Fleshner, Christopher	BS1997
Flickinger, Timothy	BS1990
Fliehler, Brian	BS2003
Floyd, Charles	BS1972
Floyd, Eric	BS1993
Forbes, David	BS1984
Forbes, Jeffrey	BS1982
Ford, Dennis	BS1982
Ford, Michael	BS1980
Ford, Nicholas	BS2002
Ford, Steven	BS1976
Formanek, Brenton	BS2009
Forrest, John	MS1999
Forristall, Gary	BS1971
Fortune, Warren	BS1974
Fosdick, James	BS1981
Foster, Donald	BS1981
Fowler, Carey	BS1982
Fowler, Dennis	BS1973
Fowler, Mark	BS1987
Frakes, Aron	BS1999
Francois, Craig	BS1979
Francois, Paul	BS1991
Franje, Nathan	BS2003
Frank, Andy	BS1984
Frank, Stephen	MS2003
Frank, William	BS1970
Franzen, Gregory	BS1985
Fredericksen, Christopher	BS2007
Freeborn, Cory	BS1991
Freese, Stephen	BS1986
Frentress, Gary	BS1983
Frideres, Brandon	BS2002
Friedrichsen, Kent	BS1981
Friemel, Todd	BS2000
Friesth, Michael	BS1997
Frietsche, Gretchen	BS2002
Frischmeyer, David	BS2007
Fritcher, James	BS1978
Frohardt, Daniel	BS2007
Frohn, Robert	BS1994
Fry, James	BS1982
Frye, James	BS1992

Fucinaro, Tony	BS2003
Fuller, Jake	BS2010
Gabrielson, Jay	BS1982
Gahan, William	BS1982
Ganch, Steven	BS1989
Gannon, Daniel	BS1970
Gannon, Patrick	BS1991
Gao, Zhili	MS2001, PhD2004
Gapinski, Jonathon	BS2008
Gapstur, Cory	BS2003
Gardner, Miles	BS1974
Garner, Aaron	BS2002
Garwood, Matthew	BS1994
Gast, Alan	BS1979
Gast, Guy	BS1977
Gatto, David	BS1982
Gaube, Joshua	BS2007
Gaudreault, Ronald	BS1988
Gaul, Brian	BS1999
Gawley, Michael	BS1978
Geary, Patrick	BS1991
Gebhardt, Douglas	BS1991
Gehrls, John	BS1981
Geier, Jeffrey	BS1990
Geiler, Frederick	BS1971
Geisler, Bryan	BS1988
George, Joseph	BS1988
Gerard, Michael	BS1983
Gerber, Ted	BS2010
Gerdes, Gregory	BS1984
Gerleman, Joseph	BS1979
Geske, Jeffrey	BS1982
Gethmann, Jack	BS1963
Getman, James	BS1981
Ghafghazi, Abolghassem	BS1983
Ghozi, Azmi	BS1999
Giannelli, James	BS1979
Gibbs, Reese	BS1980
Gilbert, Dennis	BS1973
Gilbert, Roger	BS1969
Gilbreath, Mark	BS1991
Gillum, Curt	BS2006
Giroux, Paul	BS1979
Glander, Robert	BS1979
Gleason, Glen	BS2006
Gleisberg, Ariana	BS2004
Glesener, Kent	BS1973
Glines, Daniel	BS1976
Gmitro, Mark	BS1983
Godar, Mark	BS1980
Goddard, Chad	BS2001
Goehner, Joel	BS1987
Goettsch, Craig	BS1979
Golay, Richard	BS1976
Golding, Ben	BS2001
Golumbeck, Steve	BS2000
Goodall, William	BS1977
Goodrich, Todd	BS1996
Goodwin, Peter	BS1971
Gordon, Aaron	BS1998
Gordon, Joseph	BS1971
Gordon, Wayne	BS2007
Gorman, Michael	BS1979
Gosselink, Jerry	BS1966
Gotfredson, Gary	BS1965
Graber, Cortney	BS1999
Grablin, Patrick	BS1979
Graeve, Douglas	BS1984
Graeve, Michael	BS1978
Graeve, Wayne	BS1976
Grager, Justin	BS2004
Granahan, Gerald	BS1981
Granner, Andrew	BS1987
Greco, James	BS1983
Greenig, Steven	BS1980
Greenlee, Richard	BS1966
Greenley, Kyle	BS1993
Greiner, Robert	BS2008
Greve, Troy	BS2008
Gries, Brandon	BS2007
Grieser, Anthony	BS2004
Griffith, Kendall	BS1992
Grim, Michael	BS2009
Grimmius, Joben	BS2009
Gritters, Bruce	BS1984
Gritters, Michael	BS1982
Gromala, Steven	BS1986
Gronewold, Mark	BS1975
Grosland, Steven	BS1972
Grout, Roger	BS1988
Grubb, Andrew	BS2005
Gruber, Kimberly	BS1996
Grunder, Kyle	BS2009
Grunzweig, Nicholas	BS1977
Gudgel, Phillip	BS1980
Guetzko, Mark	BS1984
Guggisberg, Angela	BS2004
Guhathakurta, Swagata	MS1989
Guinn, John	BS1970
Gumm, Matthew	BS1999
Gunderson, Mark	BS1991
Gunnink, Brett	BS1981
Gustafson, Everett	BS1971
Haaland, Ryan	BS2006
Habben, Craig	BS1989
Hackenmiller, Ryan	BS2006
Hagberg, James	BS1979
Hagberg, Nathaniel	BS2003, MS2006
Hage, Darin	BS1997
Haines, Mark	BS1994
Halbur, Michael	BS1996
Hale, Rondal	BS2007
Hale, Tom	BS1973
Halim, Djohan	BS1991
Hall, Jeffery	BS1981
Hall, Peter	BS1981
Halloran, John	BS1999
Hallquist, Daryl	BS1967
Halsey, Brandon	BS2007
Halverson, Steven	BS2005
Halvorson, Julie	BS2005
Hamad, Nizar	BS1983
Hameister, Michael	BS2008
Hamilton, Craig	BS1973
Hamilton, Matthew	BS1999

Hamilton, Robert	BS1988
Hamm, Nathan	BS2009
Hammer, Jeffrey	BS1998
Hand, Jonathan	BS2002
Hanks, David	BS2010
Hannemann, Tod	BS1972
Hansen, Craig	BS1977
Hansen, Gregory	BS1985
Hansen, Jeffrey	BS1984
Hansen, Lee	BS1981
Hansen, Scott	BS1985
Hansl, Hans	BS1981
Hanson, Daniel	BS1982
Hanson, Robert	BS1973
Hanson, Stanley	BS1970
Hanus, Trevor	BS2010
Hapke, James	BS2003
Harder, Matthew	BS2009
Harger, Michael	BS1993
Harken, Kasey	BS2001
Harlson, Richard	BS1971
Harman, Pamela	BS1979
Harmelink, David	BS1988, MS1990, PhD1995
Harmon, Joseph	BS1975
Harmon, Robert	BS1982
Harms, Corey	BS2001
Harms, Ross	BS1990
Harmsen, Leroy	BS1979
Harriman, Benjamin	BS2010
Harrington, Kevin	BS1993
Harrington, Matthew	BS1998
Harris, Charlie	BS1998
Harris, Howard	BS1977
Harris, Jacob	BS2008
Harris, Joseph	BS2005
Harris, Richard	BS2006
Harrison, Christopher	BS1987
Harry, Brian	BS2008
Harryman, Michael	BS1999
Hart, J. Alexander	BS1981
Harty, Nathan	BS2003
Hass, Michael	BS1997
Hassenfritz, Joseph	BS1980
Hauser, Stephen	BS1979
Hauser, Todd	BS1984
Hausman, Amanda	BS2008
Haverkamp, Matthew	BS2008
Hawkins, Ryan	BS2004
Hawn, David	BS1982
Hay, Steven	BS1977
Hayek, David	BS2004
Hayes, John	BS1984
Haynes, Mark	BS1983
Hazel, Michael	BS2002
Hedgren, Brian	BS2000
Heemstra, Bradley	BS1984
Heemstra, Christopher	BS2009
Heger, Thomas	BS1997
Heggen, Edward	BS2002
Heggen, Thomas	BS1975
Heier, Ryan	BS2000
Heikens, Michelle	BS2003
Heiliger, Terry	BS1990
Heinselman, Samuel	BS2008
Heisdorffer, Kevin	BS2008
Helgevold, Kevin	BS1982
Hemmen, Gary	BS1967
Hemmen, Gregory	BS1991
Hemphill, Derek	BS2003
Henderson, Kelly	BS2002
Henderson, Thomas	BS1982
Hendrickson, Ed	BS1979
Hendrickson, John	BS1986
Hendrickson, Matthew	BS2008
Hendrix, Raymond	BS1966
Henkels, John	BS1980
Henkels, Paul	BS1979
Hennessey, Austin	BS2010
Henning, Lance	BS1989
Hentges, Joseph	BS1991
Herbst, Dean	BS1995
Herman, Josh	BS2003
Hermsen, Joshua	BS2002
Herrema, David	BS2001
Herrick, Mark	BS1975
Herrig, Nick	BS1989
Herrman, Douglas	BS1981
Herzberg, Dave	BS1990
Heston, William	BS1979
Hetzler, Matthew	BS1982
Heying, Galen	BS1983
Heyne, Stephen	BS1999
Heyne, Tara	BS1999
Hibbs, Tony	BS1991
Higginbotham, Greg	BS1981
Higgins, Corey	BS1999
Higgins, Paul	BS1982
Higgins, Scott	BS1983, MS1983
Hikiji, Vance	BS1993
Hildebrand, Scott	BS2006
Hill, John	BS1979
Hill, Keith	BS1983
Hillis, Matthew	BS2000
Hilton, Jimmy	BS2010
Hilton, Mark	BS1976
Hindermann, Matthew	BS1988
Hines, Perry	BS2003
Hintz, Rodney	BS1998
Hirsch, Douglas	BS1981
Ho, Stephen	BS1982
Hobbs, Syd	BS1979
Hodapp, Travis	BS2001
Hodapp, Troy	BS1996
Hodgin, D. Brian	BS1984
Hodgson, Kevin	BS2001
Hoenk, Mark	BS1997
Hofer, Brad	BS1992
Hofert, Daniel	BS1994
Hoffey, Martin	BS1985
Hoffman, Rodney	BS1982
Hoffman, Samuel	BS2007
Holcomb, Kevin	BS1981
Holmberg, Alan	BS1981
Holmes, Shawn	BS1999

Holt, Randy	BS1980
Homan, Aaron	BS1999
Homan, Sarah	BS2003
Honsbruch, Roger	BS1975
Hopp, Mike	BS2009
Horlyk, Eric	BS1979
Hornaday, William	BS1978
Hornibrook, Matthew	BS2005
Hosch, Gregory	BS1993
Hostetler, Robert	BS2000
Hotchkiss, Jacob	BS2004
Hotovec, Chad	BS2006
Houseman, Kenneth	BS1983
Hovenga, Anthony	BS1982
Howard, David	BS1988
Howe, Jesse	BS2007
Hubbard, Cheryl	BS1999
Hubers, Michael J	MS1990
Hudnutt, Scott	BS1988
Huey, Peter	BS2002
Huggins, Matthew	BS1997
Hughes, Marc	BS1998
Hugo, Bruce	BS1988
Hullinger, David	BS1982
Hulsebus, Jason	BS2004
Humphreys, Jake	BS2006
Hundley, Sarah	BS2004
Hunemuller, Judd	BS1977
Hunsicker, Mark	BS1981
Hunt, Michael	BS1976
Hunter, Gregg	BS1981
Hunwardsen, Roger	BS1989
Hurd, Anders	BS2008
Hurd, Scott	BS1981
Hurley, Lawrence	BS1981
Hutchens, Mark	BS1983
Hutchens, Scott	BS1987
Hutter, Michael	BS1981
Hyler, Susan	BS1981
Hyun, John	BS1997
Ihle, Leon	BS1968
Iikubo, Kakeru	BS2007
Ilten, Daniel	BS1972
Irlbeck, Brian	BS2001
Ivis, David	BS1978
Jabaay, Todd	BS1988
Jackson, Justin	BS2008
Jackson, Stephen	BS1975
Jackson, Walt	BS1997
Jacob, Renoj	BS2008
Jacobs, Darin	BS1994
Jafari, Behzad	BS1983
Jaggia, Chandrika Vardhan	MS1991
James, Stephen	BS1985
Jelinek, Aldona	MS2002
Jennett, Samuel	BS2009
Jennett, Timothy	BS2008
Jensen, Alexandre	BS2009
Jensen, Bradley	BS1992
Jensen, Carlin	BS1985
Jensen, Thomas	BS1980
Jepsen, Matthew	BS1998
Jessen, Douglas	BS1985
Jessen, George	BS1984
Jesson, Matthew	BS2002
Jestrab, Eric	MS2006
Jiang, Dongying	MS2001
Jochimsen, Ronald	BS1973
Johann, Steven	BS1978
Johansen, Erik	BS2002
Johansen, Erik	BS2009
Johnson, Brent	BS1983
Johnson, Brian	BS2008
Johnson, Curt	BS1992
Johnson, David	BS1980
Johnson, David	BS1970
Johnson, Douglas	BS1974
Johnson, Erik	BS2006
Johnson, Joel	BS1989
Johnson, Mark	BS1980
Johnson, Michael	BS1988
Johnson, Paul	BS1977
Johnson, Rodney	BS1996
Johnson, Saren	BS1989
Johnson, Steven	BS1979
Johnson, Timothy	BS1980
Johnson, William	BS1982
Johnston, Brent	BS1988
Johnston, Jeffrey	BS1980
Jones, Anthony	BS1993
Jones, Bradley	BS1995
Jones, Brandon	BS2000
Jones, Donald	BS1987
Jones, Douglas	BS1973
Jones, Jared	BS2004
Jones, Jason	BS1995
Jones, Stephen	BS1970
Jorgensen, Craig	BS1987
Juhl, Derek	BS2006
Jungers, Derrick	BS2008
Junginger, Jaquelyn	BS2001
Jungst, Donald	BS1975
Junker, Vincent	BS1990
Kacmarynski, Brian	BS2003
Kaewmoracharoen, Manop	MS2004
Kaewmoracharoen, Manop	PhD2009
Kain, Kevin	BS2002
Kaiser, Lee	BS2001
Kaminski, Nicholas	BS2001
Kamp, Todd	BS1999
Kanaan, Hamdi	BS1983
Kanaan, Mohammad	BS1985
Kaplanes, James	BS1989
Karadsheh, Issa	BS2002
Karlson, Michael	BS1979
Karns, Matthew	BS2010
Kaspar, Steve	MS1989
Katschkowsky, John	BS1986
Kau, Chee	BS1990
Kauffman, Ryan	BS2004
Kaufman, Eric	BS2000
Kaufman, Michael	BS1984
Kavallieros, Minas	BS2005
Kavouris, John	BS1988
Keagle, Dan	BS1998

Kehrt, Chad	BS1995
Keleher, John	BS1982
Kelling, Craig	BS1981
Kelly, Angela	BS2001
Kelly, John	BS2009
Kelly, Scott	BS1987
Kemp, Charles	BS1987
Kendall, Aaron	BS2007
Kennedy, James	BS1990
Kerr, Sarah	BS1982
Ketelsen, Brett	BS2004
Kibsgaard, Randy	BS1984
Kieffer, Paul	BS1985
Kies, Kathleen	BS2002
Kilheeney, Martin	BS1984
Kim, Seong	MS2004
Kimsey, Keith	BS2010
Kincart, Jim	BS1971
King, David	BS1978
King, Michael	BS1997
King, Sharon	BS1995
Kinser, Gregory	BS1997
Kinseth, Marc	BS1986
Kinsinger, Thomas	BS2007
Kinter, Melony	BS2000
Kintner, Mark	BS1993
Kipp, Ryan	BS1998
Kirby, Chad	BS1997
Kirchner, Randal	BS1980
Kirstein, Nathan	BS2000
Kisilewiski, Mary	BS1987
Kleiman, Stephen	BS1982
Klein, Patrick	BS1966
Klemm, Jonathan	BS2010
Klemme, Brian	BS2005
Klinkefus, Bradley	BS2002
Klootwyk, Norman	BS1972
Klusendorf, Brian	BS1988
Knau, Gregory	BS1981
Kneeland, Loren	BS1970
Knepel, Aaron	BS1997
Knepper, Jeffrey	BS2000
Knibbe, John	BS1982
Knight, Jeffrey	BS1983
Knipp, Jason	BS2007
Knox, Jamie	BS2006
Knudsen, Brian	BS1982
Knudsen, Gregory	BS2009
Knueppel, Dale	BS1981
Knutsen, Jeff	BS2001
Kobusch, Andrew	BS2007
Koch, Kristen	BS2007
Kock, Travis	BS1999
Koellner, Kevin	BS1989
Koenen, Matt	BS1997
Koenigs, Harold	BS1986
Koepnick, Jim	BS1971
Koerner, Jonathan	BS1978
Koester, Matthew	BS2009
Koester, Paul	BS1977
Kohns, Larry	BS1968
Kolacia, Craig	BS1996
Kooker, Greg	BS1983
Kopp, Nicholas	BS2003
Kouri, Adam	BS2001
Kraft, Wayne	BS1992
Krage, Thomas	BS1978
Kramer, Mark	BS1982
Kreftmeyer, Christopher	BS2002
Kress, Jacob	BS2006
Krieg, Christopher	BS2001
Krier, Robert	BS1981
Krogstad, Ryan	BS1998
Krug, Everett	BS1970
Krummen, Stewart	BS1991
Krumwiede, Christopher	BS1998
Kruse, Ben	BS2008
Kruse, Brad	BS2004
Kruse, Frederick	BS1980
Kruse, Klint	BS2007
Kubik, Dave	BS2009
Kuehner, Travis	BS1999
Kuehni, Rose Marie	BS1996
Kuenstling, Jon	BS1985
Kueter, Scott	BS2001
Kumm, Douglas	BS1981
Kundinger, Jessica	BS2007
Kunz, Brad	BS2003
Kupka, Kevin	BS1981
Kurth, James	BS2006
Kutchen, Mark	BS1993
Kutchen, Scott	BS1999
Ladd, Colleen	BS1997
Ladson, A.B.	MS1995
Lamb, Gary	BS1967
Lambert, Tracey	BS1974
Lamp, Ian	BS1981
LaNasa, Richard	BS1989
Lancaster, David	BS1988
Landau, Cole	MS2007
Lane, Chad	BS2010
Lang, Steven	BS1978
Langdon, Frederick	BS1982
Lange, Gerald	BS1972
Larsen, Matthew	BS2009
Larson, Bradley	BS1991
Larson, Chris	BS1980
Larson, Craig	BS1978
Larson, Curt	BS1988
Larson, David	BS1978
Larson, David	BS1978
Larson, Douglas	BS1995
Larson, Gregory	BS1977
Larson, Jeffrey	BS1983
Larson, Jeffrey	BS1988
Larson, Kenton	BS1980
Larson, Matthew	BS2001
Larson, Norman	BS1966
Laski, Tara	BS1999
Latoria, Anthony	BS2007
Lau, Dung Hing (Gabrial)	MS2000
Laurenzo, Brian	BS1984
Lauritson, Joseph	BS1997
Lauters, Nicholas	BS2005
Lawrence, Douglas	BS1978

Layland, Chad	BS1998
Leach, Gary	BS1982
Leapley, Gary	BS1980
Leavitt, James	BS1980
Leavitt, Steven	BS1974
Lebo, Thomas	BS1979
Lechtenberg, Justin	BS2003
Lee, Hoon-Hong	BS2000
Lee, Mark	BS2004
Leege, Lawrence	BS1971
Leek, Melissa	BS2002, MS2002
Lehan, Benjamin	BS2006
Lehman, Jeffrey	BS1988
Lehr, David	BS1988
Leimer, Nicholas	BS2002
Leinen, Timothy	BS1975
Leitch, Brian	BS2010
Leonard, Daniel	BS1985
Leonard, Steven	BS1980
Leonard, Terry	BS2002
Lesh, John	BS1985
Leuer, Mark	BS1988
Leusink, Mark	BS2000
Leuzzi, Mario	BS1998
Leverington, Steven	BS1986
Lewis, Chadwick	BS1978
Lewis, Dennis	BS1972
Lewis, Rhonda	BS1991
Lewis, Richard	BS1991
Lewton, Jonathan	BS2006
Lewton, Russell	BS1987
Lex, Kevin	BS1997
Li, Chun	MS2000
Li, Jingxi	MS2002
Li, Lifeng	MS2002
Lie, Robert	BS1981
Liebbe, Todd	BS1986
Lilly, James	BS1979
Lim, Ki	BS1988
Lin, Mary E	MS1996
Lind, Kevin	BS2006
Lindhart, Christopher	BS1982
Lindquist, Eric	BS2007
Lindsley, Dennis	BS1969
Line, Thomas	BS1964
Link, William	BS1976
Linman, Bradley	BS2002
Linn, Scott	BS1978
Little, David	BS1981
Littrell, Brian	BS1981
Llewellyn, Ryan	BS2003
Loeffelholz, Alan	BS1985
Loes, Joel	BS2009
Logan, Robert	BS1973
Logan, Robert	BS1981
Logue, Steven	BS1981
Loneman, Steven	BS1986
Long, Jerry	BS1982
Loomis, Eric	BS1988
Lorei, Greg	BS1990
Lorensen, Louisa	BS2004
Lorenzen, Jeffrey	BS1979
Lorey, Patrick	BS1975
Loss, A.J.	BS1999
Loudin, Stephen	BS1981
Lounsbury, Andy	BS1984
Lourens, Travis	BS1994
Lovin, Benjamin	BS1999
Lovin, Grant	BS2008
Lower, Bryan	BS1983
Lowndes, James	BS1981
Lowthorp, Andrew	BS2010
Loxterkamp, Mark	BS1981
Loy, Zachary	BS2008
Lubbert, William	BS1983
Lucas, Jeffrey	BS1983
Luck, Matthew	BS2008
Ludwig, Jerry	BS1979
Ludwig, Steven	BS1986
Lukin, John	BS1972
Lundy, Andrew	BS2000
Lunsford, John	BS1990
Lutenegger, Alan	BS1975
Lutt, John	BS1974
Lutter, Jim	BS2001
Lux, Jeremy	BS1996
Lyon, Caleb	BS2007
Lyon, David	BS1991
Lysne, Douglas	BS1967
Maas, Michael	BS1975
Mackewicz, Craig	BS1981
Maddy, Joseph	BS1984
Madison, Matthew	BS2004
Madsen, Brian	BS2009
Madson, Scott	BS1982
Magee, Dwight	BS1984
Magnuson, Matthew	BS2009
Mahlstede, John	BS1987
Majeres-Patterson, Cynthia	MS2001
Majeres, Todd	BS2000
Major, Charles	BS1971
Makarla, Deepak	MS2004
Maloney, James	BS1990
Mamuya, Lemuel	BS2008
Man, Jack	BS1980
Manatt, Andrew	BS2001
Manfull, Bryan	BS1989
Manker, Tyler	BS2006
Manning, Christopher	BS198, MS1990
Manning, Jeff	BS1997
Manning, Jeremy	BS1997
Manning, Russell	BS1972
Maranowicz, John	BS2000
Marbach, Lee	BS2008
Marburg, John	BS1993
Mark, Tyler	BS2007
Markhardt, Kevin	BS1987
Markle, Joshua	BS2008
Marks, Jeffrey	BS1991
Marolf, Ronald	BS1995
Marrin, Gary	BS1979
Marsh, Bruce	BS1992
Marsh, Robert	BS1978
Martens, Aaron	BS2008
Martens, George	BS1981
Martin, Bradley	BS1983

Martin, Don	BS1977
Martin, Gregory	BS1979
Martin, James	BS1997
Martin, Jane	BS1984
Martin, Jeffrey	BS2000
Martin, John	BS1970
Martin, Julie	BS2003
Martin, Mark	BS1985
Martin, Peter	BS1981
Martinsen, Lee	BS1971
Martinson, Richard	BS1989
Mascardo, Rick	BS1993
Massman, Martin	BS1981
Mathiasmeier, Michael	BS1984
Matt, Gary	BS1981
Mattison, Todd	BS1982
Matzinger, James	BS2006
May, James	BS1986
May, Ryan	BS2001
Mbapanza, Ibrahime	BS2001
McAlpin, Larry	BS1973
McArtor, Michael	MS2002
McCarthy, David	BS1980
McCarty, Mark	BS1987
McClain, Kevin	BS1998
McClain, Patrick	BS2006
McCline, Curtis	BS1976
McColloch, Mitchell	BS2010
McCollough, Laura A.	MS1996
McCollough, Todd	BS1996
McCormick, Dean	BS1981
McCormick, Thomas	BS1976
McCoy, Michael	BS2000
McDermitt, Gary	BS1995
McDermott, Brian	BS1995
McDermott, Cory	BS2008, MS2009
McDermott, Mark	BS1991
McDonald, John	BS1981
McDonald, Norman	BS1980
McDonald, Patrick	BS1983

McDonnell, Kimberly	BS1982
McDowell, Curtis	BS1996
McElroy, James	BS1976
McFadden, Shane	BS1994
McFarland, Timothy	BS1975
McGiverin, Terry	BS1963
McGreger, Ryan	BS2010
McGuire, Ryan	BS2006
McIntosh, G. Allen	BS1994
McKay, Jeffrey	BS1979
McKee, Jeffrey	BS2006
McKee, Wade	BS1990
McKee, William	BS1995
McKinney, Matthew	BS2000
McLatchie, David	BS2002
McLaughlin, Seth	BS1984
McMinemee, Jennifer	BS2003
McMullen, John	BS1990
McNamara, Christopher	BS1999
McPherson, Michael	BS1967
McWhirt, Darren	MS2007
Meco, Tolga	MS2004
Medema, Donald	BS1983
Megraw, Kerry	BS2005
Meier, John	BS1985
Meier, Russell	BS1991
Meiners, Theodore	BS2002
Meints, Jamey	BS1997
Meis, John	BS1982
Meisenheimer, Daryl	BS1990
Meldrum, Scott	BS1997
Melton, Thomas	BS1995
Menke, Gregory	BS1995
Menninga, Johnny	BS1973
Menz, Loren	BS1968
Mercuris, Peter	BS2006
Meredith, Jessica	BS2009
Merk, Jonathon	BS2000
Merkel, Jay	BS1979
Merryman, Kevin	BS1995

Merta, Benjamin	BS2000
Mettin, Kyle	BS1991
Meyer, Brad	BS2010
Meyer, Paul	BS2002
Meyer, Valarie	BS2000
Meyeraan, Kendall	BS1988
Meyerholz, Tyler	BS2005
Meyn, Kent	BS1985
Michael, Bryan	BS1996
Mickelson, Kent	BS2005
Mihovilovich, Jerry	BS2007
Mikulecky, Lester	BS1975
Millard, Tyler	BS2008
Miller, A. Warren	BS1975
Miller, Aaron	BS1999
Miller, Anthony	BS1994
Miller, Charles	BS1985
Miller, David	BS1971
Miller, Dennis	BS1970
Miller, Geoffrey	BS2007
Miller, Luke	BS2009
Miller, Matt	BS1996
Miller, Matthew	BS1999
Miller, Steven	BS1994
Mills, Bradley	BS1982
Miltenberger, Joshua	BS2005
Miner, Jason	BS2001
Minter, Kathleen	BS2000
Miskawi, Haytham	BS1989
Mitchem, Greg	BS1998
Mittag, Nathan	BS2006
Mitton, Thomas	BS1979
Mlady, Joseph	BS1975
Modjeski, Francis	BS1986
Moeller, Larry	BS1972
Moellers, Jeffrey	BS2006
Molln, Alan	BS1982
Moltz, Eric	BS1990
Moltz, Vincent	BS1968
Montague, Richard	BS1999
Montgomery, Brandon	BS2010
Montgomery, Craig	BS2006

Montz, Craig	BS2004
Moore, Cheri	BS2003
Moore, Douglas	BS1991
Moore, Jeffrey	BS1978
Moore, Ryan	BS1998
Moore, Tom	BS1980
Moreno, Carols A.	MS1989
Morgan, Catherine	BS1984
Morgan, Douglas	BS1980
Moritz, Jason	BS2008
Morris, Michael	BS1982
Morse, Mark	BS1978
Morshed, Maryam	BS1981
Mortensen, Scott	BS1997
Mortimer, David	BS1985
Morton, Scott	BS1981
Moser, Shawn	BS1998
Moss, Craig	BS1997
Moss, Jacob	BS2010
Mostaert, Trent	BS1994
Mozena, John	BS1988
Mueller, Kyle	BS2007
Mueller, Richard	BS1975
Mukherjee, Subhransu	MS1990
Mullen, Daniel	BS1979
Muller, Jordan	BS2004
Muller, Timothy	BS1976
Munsch, Andrew	BS2004
Murdoch, Wesley	BS2002
Murphy, Michael	BS1972
Murphy, Stephen	BS1968
Murray, Patrick	BS1977
Murray, Tyrel	BS2005
Mussman, Chad	BS1993
Myers, Bryan	BS1984
Myhre, Rik	BS2001
Naberhaus, Dennis	BS1973
Naberhaus, Leon	BS1977
Nack, Jonathan	BS2007
Nading, Jeff	BS1980
Nagen, Brent	BS1995
Nagle, Tyler	BS1985

Nanfito, Samuel	BS1999
Nangle, Robert	BS1989
Narayanan, Vijay	BS1999
Naresh, Arcot L	MS1996
Nashert, Walter	BS2003
Naughton, Luke	BS1998
Neal, Paul	BS1964
Neelan, Patrick	BS1981
Nelsen, Chandler	BS1997
Nelson, Adam	BS2006
Nelson, Carl	BS1976
Nelson, Christopher	MS1998
Nelson, James S	MS2005
Nelson, Mark	MS1988
Nelson, Michael	BS1999
Nelson, Michael	BS1992
Nelson, Randy	BS1984
Nelson, Ryan	BS1999
Nelson, Steven	BS1987
Nelson, Steven	BS2001
Nelson, William	BS1969
Neppl, Daniel	BS1988
Nestvedt, Joseph	BS1981
Netley, Dwayne	BS1976
Neubauer, Scott	BS1993
Neumann, Philip	BS1983
Newbury, Scott	BS1987
Newman, Arthur	BS1978
Newton, Bernard	BS1984
Newton, Jonathan	BS1990
Nguyen, Arren	BS2010
Nichols, Lincoln	BS2006
Nickel, Branson	BS2001
Niebuhr, Lawrence	BS1980
Niebuhr, Scott	BS1988
Niebuhr, Steven	BS1983
Nielsen, Brent	BS1998
Nielsen, James	BS2009
Nielsen, Peter	BS1997
Nieman, Jared	BS1975
Nieman, Jon	BS1983
Nikolin, Benjamin	BS1997

Nilsson, Alan	BS1990
Nissen, James	BS1981
Nizzi, Charles	BS1974
Njos, Steven D	MS1990
Noel, Gary	BS1982
Nollin, Jacob	BS2007
Nolta, Mark	BS1985
Nook, Corey	BS1998
Noonan, Thomas	BS1976
Norberg, Austin	BS2009
Norby, Ronald	BS1971
Nordell, Dustin	BS2006
Nordland, Robert	BS1985
Nordyke, Garrett	BS1999
Norton, Andrew	BS2008
Nott, Dennis	BS1973
Novak, Daniel	BS1986
Novak, Thomas	BS1981
Novy, Michael	BS1978
Nuckolls, Brett	BS1980
Nwokedi, Chukwuemka	BS1989
O'Brien, Jack	BS1975
O'Connor, Michael	BS2002
O'Dear, David	BS1986
O'Loughlin, Phillip	BS2010
Obbink, Nicholas	BS2003
Oberhaus, Paul	BS1982
Obrecht, Christopher	BS1997
Ocken, Merle	BS1970
Oehlerts, Richard	BS1968
Ogrady, Rowdy	BS2010
Ohde, Douglas	BS1970
Ohlfest, Douglas	BS1973
Olberding, Matt	BS2006
Olesen, Mark	BS1989
Olson, Justin	BS2005
Olson, Katie	BS2008
Olson, Mark	BS1982
Olson, Nick	BS2010
Ones, Keith	BS1978
Ong, Nai	BS1983

Orgler, Michael	BS1991
Osgerby, Kevin	BS1981
Osier, Thomas	BS2004
Ott, Kevin	BS1997
Otte, Douglas	BS1975
Otto, Richard	BS1973
Overgaard, Nels	BS2006
Owens, John	MS2010
Owens, Robert	BS1984
Pacholski, Catherine	BS1999
Pallegar, Nareshkumar K	MS1992
Palmer, Bradley	BS1981
Palmer, Neal	BS1981
Pang, Kwok-Chu	BS1996
Papesh, Adam	BS2000
Paradise, Michael	BS1967
Parham, Thomas	BS1982
Parietti, Thomas	BS1989
Paris, Christopher	BS1994
Parmelee, Robert	BS1985
Parsons, Mike	BS1982
Pasquariello, Robert	BS1980
Patrick, James	BS1983
Paul, Ryan	BS2008
Pauley, Randall	BS1987
Paulsen, Bradley	BS2010
Payne, Joshua	BS2004
Payne, Robert	BS1979
Pearson, Nathan	BS1996
Pech, Fred	BS1979
Pelton, John	BS1991
Pelton, Ronald	BS1985
Penning, Jeff	BS1999
Penning, Lowell	BS1983
Pepper, Craig	BS1980
Pepper, Dave	BS1985
Perkins, Bradley	BS1997
Perkovich, Alan	BS1988
Perrenoud, Douglas	BS1983
Perry, Gilbert	BS1974
Persinger, Douglas	BS1991
Pestel, Paul	BS2008
Peters, Gerald	BS1983
Peters, Randall	BS1989
Petersen, Adam	BS2002
Petersen, Andrew	BS2008
Petersen, Bart	BS1991
Petersen, Dean	BS1985
Petersen, Michael	BS1974
Peterson, Becky	BS1980
Peterson, David	BS2001
Peterson, Eric	BS2009
Peterson, Gale	BS1966
Peterson, Gerald	BS1981
Peterson, Jeffrey	BS1988
Peterson, Jeffrey	BS2009
Peterson, Joel	BS1986
Peterson, Kirk	BS1985
Peterson, Luke	BS2009
Peterson, Ryan	BS2000
Peterson, Ryan	BS2009
Peterson, Thomas	BS1967
Peterson, Zachary	BS2006
Petricka, Tracy	BS1999
Peverill, Kelsey	BS2007
Pfab, Adam	BS2002
Pfeffer, William	BS1974
Pfeifer, Christine	BS1997
Pfeiler, Robert	BS1973
Philips, Cole	BS1998
Phillips, Bradley	BS1980
Phipps, Brian	BS2009
Pick, Joshua	BS2006
Pidaparti, Surya	MS1991
Pietig, Brian	BS1991
Pigneri, Rocco	BS1978
Pigneri, Ryan	BS2009
Pigneri, Steven	BS1991, MS1998
Pilcher, Nathan	BS2006
Piper, Ross	BS2001
Pittman, Brian	BS2001
Pittman, Daniel	BS1995
Pladsen, John	BS1995
Platt, Quentin	BS1999
Plotts, Garett	BS2009
Plymesser, Cliff	BS2005, MS2005
Poduska, Martin	BS1976
Poland, Eric	BS2007
Pollock, Brian	BS2002
Pomerleau, Bruce	BS2008
Pope, Andrew	BS1987
Port, Casey	BS1998
Postma, Gene	BS1991
Potter, William	BS1978
Pottratz, Daniel	BS1998
Powell, Douglas	BS1971
Powell, Kelsey	BS2008
Prasetyo, Ananto	BS2003
Praska, Donna	BS1984
Prediger, Patrick	BS2000
Predl, Edward	BS2009
Prendergast, Thomas	BS1969
Prescott, Gary	BS1979
Pribadi, Iwan	MS2000
Price, Ritchie	BS1980
Prior, Wayne	BS1980
Prochaska, James	BS1966
Proctor, Matthew	BS2000
Propp, Todd	BS1987
Prosek, Joseph	BS2003
Prosperi, Robert	BS1970
Pua, Lean	BS1991
Pullen, Jeff	BS1980
Punelli, Dominic	BS2000
Purdy, Nathaniel	BS2000
Qamar, Ramzi	BS1988
Qualheim, Cole	BS2008
Quarve, James	BS1989
Quinn, Jeffery	BS2005
Quinn, Kelli	BS1993
Quintero, Hernando	MS2000
Raadt, Nolan	MS2005
Rafoth, Chad	BS2000
Rager, Jeffrey	BS1985
Rahbar, Faramarz	MS1989, PhD1997
Rahe, David	BS2006

Rahe, Kyle	BS2001
Raine, Celeste	BS2001
Rainforth, James	BS1978
Rajan, Salim	MS1993
Ralston, Matthew	BS2000
Ramaekers, Tyler	BS2006
Ranch, Timothy	BS1983
Rand, Dana	BS1986
Randall, Terry	BS1970
Ranker, David	BS1971
Rasmussen, Eric	BS2006
Rasmussen, Jay	BS1991
Rasmusson, Mark	BS1982
Raufaste, Noel	BS1967
Raun, Owen	BS1981
Raun, Tyler	BS2003
Recarte, Guillermo	MS1991
Rech, Christopher	BS1989
Rechkemmer, Jason	BS1998
Reeg, Kevin	BS1993
Reeve, Ted	BS1980
Rehm, Derek	BS2009
Rehm, Michael	BS1978
Reid, Bradley	BS2009
Reihmann, Randy	BS1982
Reinke, Richard	BS1975
Reinke, Robert	BS1980
Renoe, James	BS1992
Rens, Ronald	BS1989
Repstien, Roger	BS1974
Reser, Kurt	BS1991
Retz, Drew	BS1986
Reuland, Michael	BS1984
Rewerts, Bruce	BS1992
Reynolds, Brandon	BS1998
Rhoads, Clifton	BS2007
Rhoads, Clint	BS2004
Rhody, Debra	BS1981
Rhymes, Basil	BS1983
Rhynas, James	BS2008
Rich, James	BS1998
Richards, Scott	BS1975
Richardson, Jon	BS2001
Richardson, Michael	BS2005
Richter, Patrick	BS1980
Ricken, David	BS1984
Riedmann, Louis	BS1976
Riesenberg, Nic	BS2001
Righi, Timothy	BS1990
Rigsby, Timothy	BS1983
Ringsdorf, William	BS1985
Ripple, Aaron	BS2002
Ristau, Kent	BS1993
Rivera, Nicholas	BS2006
Rivisto, John	BS1983
Roberts, Drew	BS2008
Roberts, Ewatt	BS2010
Roberts, Nicholas	BS2010
Roberts, Stephen	BS1981
Robinson, James	BS1977
Rodriguez, Yvan A	MS1992
Roecker, Scott	BS1987
Rogers, Barry	BS1979
Rogers, Steven	BS1984
Roggenbuck, Paul	BS2008
Roitman, Gad	MS1993
Roitsch, Eric	BS1997
Roland, George	BS1976
Rolfes, Thomas	BS1982
Romanowski, Matthew	BS1990
Romero, Jason	BS2004
Roozenboom, William	BS2002
Rosa, Ashlynn	BS2007
Roseland, Richard	BS1978
Rosenbery, Aaron	BS1986
Rosenow, Craig	BS1980
Ross, Phillip	BS2003
Rossmiller, Brian	BS1990
Rosso, Christopher	BS2010
Roth, Karl	BS1981
Rotta, Andrew	BS2007
Ruba, Nicholas	BS1990
Ruden, Nicholas	BS1994
Ruggles, David	BS1988
Ruhland, Keith	BS1979
Rukashaza-Mukome, Mary	MS2004
Rumpf, Brian	BS1988
Runestad, Jay	BS1994
Rusk, Jennifer	BS1998
Russell, James	BS1983
Ryan, John	BS2003
Ryan, Matthew	BS1998
Ryan, Meaghan	BS2001
Rypma, Robert	BS2008
Sabzehzar, Habib	BS1978
Sahin, Cem	MS1992
Sajovec, Louis	BS1988
Sample, Michael	BS1981
Sande, Jerry	BS1976
Sandell, Carl	BS1977
Sanders, Bradley	BS1997
Sanders, Joseph	BS1970
Sanders, Rodney	BS2001
Sanman, Randall	BS1981
Sarno, Frank	BS1998
Sarno, Stacy	BS1998
Sauer, Lindsay	BS2000
Sautter, Robert	BS1981
Scandrett, Jeffrey	BS2001
Schaefer, Michael	BS2002
Schaefer, Ross	BS2000
Schafbuch, Casey	BS2007
Schafer, Clifford	BS2005
Schafer, Dirk	BS1980
Schapman, Nicholas	BS1978
Schebler, Jeffery	BS1981
Schenck, Bradley	BS1989
Schiefer, Jonathan	BS1998
Schimmelpfennig, Alan	BS1985
Schimmer, Joel	BS2003
Schlag, Megan	BS2009
Schlueter, Thomas	BS1985
Schluter, Lynne	BS1979
Schmall, Thomas	BS1986
Schmidt, Bryan	BS2008

Schmidt, Chad	BS2006
Schmidt, Gregg	BS2008
Schmidt, Kirt	BS2005
Schmidt, Michael	BS1982
Schmidt, Steven	BS1979
Schmit, Gary	BS1984
Schmitz, Alisha	BS1998
Schneider, John	BS1984
Schnurr, Bryan	BS1996
Schoch, Bradley	BS2006
Schoene, Richard	BS1976
Scholtes, Daniel	BS1987
Schott, Kyle	BS2003
Schraeder, Mark	BS1988
Schriever, Joel	BS1989
Schroeder, Garrett	BS2008
Schroeder, Korey	BS2003
Schroeder, Terry	BS1981
Schrupp-Rivero, Rolando	BS2002
Schuetze, Martin	BS1989
Schulte, Brandon	BS2002
Schulte, Greg	BS1990
Schultz, Edward	BS1992
Schultz, Richard	BS1970
Schultze, Richard	BS1982
Schumacher, Thomas	BS1990
Schurman, Scott	BS2008
Schuster, Daniel	BS1979
Schuster, Jason	BS1999
Schwab, Benjamin	BS1983
Schwager, Dale	BS2001
Schwake, Dustin	BS1999
Schwamman, James	BS1981
Schwarck, Matt	BS2008
Schwartz, Ann	BS1998
Schwartz, Jeffry	BS1991
Schwartz, Travis	BS1997
Schwarzenbach, Robby	BS1997
Schweers, Christopher	BS2007
Scott, Robert	BS2008
Scranton, Kirsta	BS1996
Scully, Anthony	BS2004
Scully, Whitney	BS1980
Sealine, Jon	BS1984
Seaton, Joel	BS1984
Seeboo, Asish	PHD2008
Seeger, Kenneth	BS1972
Seely, Kirk	BS1993
Seibert, Tim	BS1981
Seidl, John	BS2007
Seifert, Stephen	BS1971
Seiler, Daniel	BS2006
Seipold, Robert	BS1976
Selgrade, Dominique	BS2005
Seyko, Kevin	BS1986
Shabino, Ryan	BS2010
Sharp, Randy	BS1988
Sharples, Stephanie	BS1983
Shattuck, Brian	BS1998
Sheesley, Michael	BS1992
Sheets, Mark	BS1995
Sheffert, Lary	BS1980
Sheller, Scott	BS1979
Shelp, Peter	BS1978
Shepherd, Jonathan	BS2006
Sheriff, Jeffrey	BS1971
Sherman, Anthony	BS1995
Shevik, Gary	BS1978
Shifflett, Scott	BS2003
Shilkaitis, John	BS1983
Shisler, Isaac	BS1976
Showalter, Gary	BS1979
Shriver, Scott	BS1982
Shuba, Michael	BS1982
Shumate, Mark	BS1972
Sido, Thomas	BS1972
Siegrist, Andrew	BS2008
Sievers, Michael	BS1986
Sievers, Ryan	BS2010
Sikorski, Michael	BS1979
Sill, Eric	BS1998
Simbrowsky, Mark	BS1997
Simmons, Stanley	BS1979
Simon, Eric	BS1997
Singelstad, Jon	BS1975
Sinnwell, Lawrence	BS1986
Sipes, James	BS1983
Sirotiak, Todd	BS1983
Sirotiak, Todd	PhD2008
Sjostrom, Grant	BS2003
Slattery, Daniel	BS1985
Sleezer, Patrick	BS1989
Sleezer, Shawn	BS1991
Sloan, Daniel	BS1981
Smalling, Robert	BS1970
Smearman, Michael	BS1988
Smiley, Scott	BS1980
Smith, Aaron	BS2006
Smith, Adam	BS2003
Smith, Andrew	BS2001
Smith, Christopher	BS1998
Smith, David	BS1999
Smith, Donald	BS1971
Smith, Donavan	BS2004
Smith, James	BS2004
Smith, Jeff	BS1983
Smith, Jeffrey	BS1995
Smith, Kyle	BS1984
Smith, Matthew	BS1998
Smith, Randall	BS1986
Smith, Raymond	BS1983
Smith, Roger	BS1987
Smith, Russell	BS2004
Smith, Steven	BS1985
Smith, Walter	BS1986
Smith, Zachary	BS2009
Smothers, Troy	BS1997
Snead, Derek	BS2006
Snethen, P. Bryon	BS1990
Snyder, Angela	BS1997
Snyder, Loren	BS2001
Snyder, Mark	BS2004
Snyder, Wayne	BS1986
Sodders, Robert	BS1988
Soenksen, Eric	BS2003
Solberg, Mark	BS1985

Solberg, Paul	BS1996
Sonmez, Rifat	MS1992, PhD1996
Sonmez, Rifat	PhD1996
Sonnenberg, Bradley	MS1996
Sorensen, Kenneth	BS1976
Sorensen, Mark	BS1984
Sorenson, John	BS1963
Soteropulos, Gust	BS1981
Southorn, Craig	BS1982
Sowder, Edward	BS2008
Spain, Jesse	BS2008
Spanel, Jeffery	BS1976
Sparks, James	BS2004
Sparks, Tyler	BS2007
Spence, Jenny	BS1999
Spencer, Earl	BS1975
Spenler, Charles	BS1984
Spevacek, George	BS1971
Spidle, Craig	BS1981
Spooner, Kevin	BS1986
Sporaa, Shadrach	BS2002
Spratt, Dean	BS1980
Springer, Steven	BS1989
Stafford, Ronald	BS2000
Stamp, Bradley	BS1991
Stangl, Michael	BS1972
Stanley, David	BS1994
Stanley, Jamie	BS2002
Stapleton, Andrew	BS1995
Stapleton, Lorri	BS1994
Stark, Donald	BS1979
Staudt, Aimee	BS1999
Staudt, Josh	BS2003
Stauduhar, William	BS1990
Stealy, David	BS1992
Stearney, Peter	BS1988
Stearney, Phillip	BS1989
Stearns, Craig	BS1986
Stecker, James	BS1972
Stecker, Steven	BS1994
Steffen, Zachary	BS2007
Steffens, Brian	BS2009
Steffes, Nathan	BS2010
Stensland, Michael	BS1984
Stephan, Branden	MS1999
Stephens, Shamus	BS2001
Stephenson, Phillip	BS1996
Stevens, Don	BS1992
Stevenson, Darin	BS1999
Stevenson, Kelly	BS1983
Stevenson, Nathaniel	BS2010
Stewart, Christopher	BS1998
Stewart, Jeffrey	BS1981
Stewart, Jeffrey	MS2000
Stickfort, Derek	BS2009
Stinn, Glen	BS1981
Stockdale, Thomas	BS1977
Stoecker, Michael	BS1985
Stofferahn, Gabriel	BS2007
Stohlgren, Keith	BS1980
Stoller, Mark	BS1998
Stone, Jeffrey	BS1976
Stotts, William	BS1984
Stoulil, Andrew	BS2006
Stoulil, Mitchell	BS2008
Strahan, Justin	BS2001
Strahan, Luke	BS2006
Strawn, Diane	BS2002, MS2004
Streeper, Brian	BS2008
Streeter-Schaefer, Holly	BS1998
Strehlow, J. Bradshaw	BS1982
Streit, Craig	BS2001
Streit, Landon	BS2009
Stritzel, Mark	BS1986
Strong, Kevin	BS1973
Strotman, Daniel	BS1979
Stroud, Eric	BS1984
Strub, Joseph	BS2002
Struble, Steven	BS1990
Struss, Douglas	BS1983
Stueland, Joel	BS1997
Stukenholtz, Daniel	BS2009
Sturm, Steve	BS1990
Su, Hui	BS2004
Sugrue, Michael	BS1983
Sullivan, Barry	BS2001
Sullivan, Brian	BS2008
Sullivan, Harold	BS1968
Sullivan, Mark	BS2007
Sullivan, Timothy	BS1977
Summers, Nathan	BS2003
Sundermann, Gina	BS2006
Swanson, Donald	BS2002
Swanson, Steven	BS1991
Swanstrom, James	BS1977
Swanstrom, Jay	BS1982
Sweeney, Ron	BS1979
Sweet, Dallas	BS1984
Sweetman, Charlie	BS1990
Swenson, Mark	BS1987
Swies, Dave	BS2000
Swinning, Thomas	BS2004
Swinton, Dean	BS1971
Tacke, Cody	BS2003
Tan, Khim-Liong	MS1998
Tan, Kok	BS1986
Taylor, Clark	BS1984
Taylor, Peter	BS2004
Tech, David	BS1981
Tee, Syuin-Chet	MS2001
Teegarden, Edward	BS1999
Teeters, Brian	BS1999
Tempel, Timothy	BS1988
Templeton, Brett	BS2006
Ten Clay, Marvin	BS1968
Ten Eyck, Robert	BS1983
Teo, Clement	BS1983
Teo, Khing	BS1986
Terrell, Michael	BS1968
Terrell, Sean	BS1993
Terry, Chad	BS1996
Tharnstrom, Gregg	BS1969
Theis, Elizabeth	BS2002
Theis, Jeffrey	BS2008
Theulen, Taylor	BS2010
Thien, Hilary	BS2003

Thinnes, Karen	BS1984
Thomas, Bruce	BS1983
Thomas, Jason	BS1997
Thomas, John	BS1984
Thomas, Robert	BS1985
Thomas, Samuel	BS1969
Thomas, Thomas	BS1981
Thomas, Timothy	BS1990
Thompson, Dennis	BS1972
Thompson, Donald	BS1975
Thompson, James	BS1981
Thompson, Jock	BS1969
Thompson, Matthew	BS2002
Thompson, Scott	BS1984
Thompson, Scott	BS1982
Thompson, Terrence	BS1977
Thorius, Jacob	MS2003
Thornquist, John	BS1971
Thrap, Joshua	BS2005
Tiedeman, Robert	BS2008
Tiemeyer, Jon	BS1974
Tilford, Kelly	MS1996
Timmerman, Emily	BS2000
Timmons, Bruce	BS2000
Timmons, Daniel	BS1981
Timmons, William	BS1987
Tipp, Terry	BS2009
Tirimanne, Anselem P. R.	MS1994
Tjaden, Nicholas	BS2006
Tjelmeland, Richard	BS1982
Tobin, Craig	BS1998
Tolbert, Jamella	BS1999
Tollakson, Rick	BS1976
Tometich, James	MS2006
Tometich, Timothy	BS1999
Toney, Aaron	BS2001
Topark-Ngarm, Pattanapong	BS1997
Torkildson, Eric	BS1978
Tousley, Michael	BS1980
Treasure, William	BS2005
Treharne, Stephen	BS1970
Tremmel, Paul	BS2000

Tripp-Rieks, Joseph	BS2003
Trower, Richard	BS2007
Troyer, Richard	BS1976
Troyer, Steve	BS1993
Tubbs, Aaron	BS1996
Tubbs, Kevin	BS1982
Tucker, Richard	BS2004
Turczynski, Scott	BS1994
Turk, Jeffrey	BS1985
Turk, Michael	BS1985
Turnbull, Seamus	BS2008
Turner, Troy	BS1992
Twedt, Cynthia	BS2002
Underwood, Brent	BS1981
Ure, Scott	BS1985
Usoro, Aniekan	BS1982
Vaile, Michael	BS1985
Valdez, Brandon	BS2000
Valdez, Elizabeth	BS2001
Van Erkel, Jon	BS2008
Van Es, Jeffrey	BS1993
Van Fossen, Charles	BA1971
Van Loon, Matthew	BS2003
Van Oort, Jerry	BS2009
Van Rheenen, Chad	BS1998
Van Roekel, Sara	BS2004
Van Rossum, William	BS1995
Van Treeck, Patrick	BS1989
Van Weelden, Steven	BS1989
Vanarendonk, Brian	BS2002
VanCoughnett, Justin	BS2006
Vande Zandschulp, Harlan	BS1975
VandeKrol, Jonathan	BS2001
Vandenberg, William	BS1993
Vander Pol, Matthew	BS2001
Vandyke, Daniel	BS1982
Vanheiden, Matt	BS2001
Vanmanen, Larry	BS1968
Vannoy, Lee	BS1985
Vannoy, Lynn	BS1985
Vannoy, Robbin	BS1976

Vaske, Kent	BS1994
Vazquez, Edna	BS2003, MS2005
Veldman, Nicholas	BS2007
Venter, Daniel	BS1981
Verdon, Benjamin	BS2007
Viet, Krista	BS2001
Virdi, Gurvirinder	MS1993
Voegel, James	BS1989
Vogel, Andrew	BS2007
Vogel, Timothy	BS2001
Vogt, John	BS1980
Vonnahme, John	BS2007
Vorwald, Jason	BS1999
Vos, Jaron	BS2002
Vosler, Warren	BS1965
Voss, Edward	BS1969
Voss, James	BS1987
Voss, Kevin	BS1993
Waber, Christopher	BS1985
Wageman, Mark	BS1990
Wagner, Andrew	BS2006
Wagner, Jeffrey	BS1988
Wagner, Mark P.	MS1989
Wagner, Richard	BS1990
Waits, Colin	BS2006
Waldeier, Douglas	BS1997
Walgamuth, Shane	BS1985
Walker, Brett	BS2005
Walker, James	BS1987
Walker, Jason	BS1995
Walker, Jon	BS1980
Walker, Kevin	BS2001
Wall, Douglas	BS1984
Wall, Lucas	BS2007
Wall, Russell	BS1967
Wallace, Craig	BS1980
Wallis, Michael	BS1996
Walsh, Larry	BS1979
Walstrom, James	BS1979
Walter, John	BS1972
Waltz, Joel	BS1996
Wang, George	BS1980

Wang, Tong	MS2010
Ward, Adam	BS2007
Ward, Daniel	BS1984
Ward, Danny	BS2007
Ward, Scott	BS1995
Warner, Matt	BS2010
Warren, Jason	BS1991
Washburn, James	BS1979
Washnieski, Megan	BS2001
Waters, Dustin	BS2006
Wavering, Jay	BS2000
Weaver, Brian	BS1980
Weaver, Cole	BS2006
Webb, James	BS1973
Webb, Terrence	BS1971
Weber, Cody	BS2008
Weddall, Robert	MS1996
Wedewer, Thomas	BS1966
Weeks, David	BS1985
Weidenbach, Keith	BS1990
Weis, Shane	BS2004
Welder, Larry	BS1982
Welin, Peter	BS1979
Welker, Kurt	BS1989
Welker, Sherman	BS1982
Weller, Kyle	BS2009
Weller, Matt	BS2007
Weller, Ryan	BS2003
Wells, Brian	BS1996
Wells, Jason	BS2002
Welter, Michael	BS1981
Wendling, Scott	BS1990
Wendt, Roger	BS1986
Wenger, Lynn	BS1978
Wengert, Thomas	BS1991
Wenzel, Jeffrey	BS1982
Werden, Stephen	BS1972
Werner, Jesse	BS2007
Werthmann, Jeffrey	BS1985
Wesely, David	BS1981
Wessels, Brian	BS2004
West, Joshua	BS2008
Westbrook, Randy	BS1984
Westby, Steven	BS1982
Westendorf, Robert	BS1979
Westercamp, Chase	BS2009
Weston, Curtis	BS1985
Wetmore, Thomas	BS2008
Wharff, David	BS1983
Wheeler, Timothy	BS1977
Whitcome, James	BS1971
White, Alan	BS2004
White, Carol	BS1989
White, Chad	BS2005
White, Eric	BS2000
White, George	BS1998
White, Jason	BS2001
White, Larry	BS1974
Whitlatch, Michael	BS1974
Whitworth, James	BS1987
Whyte, Keith	BS1984
Wickering, Gary	BS2005
Wiebel, Rory	BS2001
Wieczorek, Arlo	BS2006
Wiederholt, Joshua	BS2007
Wiener, Jason	BS2002
Wiener, Matthew	BS2002
Wiitanen, Steve	BS2010
Wilbur, Eric	BS1982
Wilks, Tanner	BS2010
Williams, Nicholas	MS2005
Williams, Scott	BS2009
Wolfe, Nathan	BS2010
Wolff, Nicholas	BS2010
Wu, Sheng-Jer	MS1994
Yeong, Siew-Chin	MS1999
Zaletel, Matthew	BS2010
Zheng, Zhong	MS2005
Zutz, Aaron	MS2010

ACKNOWLEDGEMENTS

50th Anniversary Celebration Event Planning and Special Thank-you's

The construction industry has long understood the tremendous value of construction engineering education. It was that very passion that provided the impetus and the needed funding to launch Iowa State University's Construction Engineering program. Its many graduates through the years have grown to not only appreciate the excellent education they received, but also to make a personal commitment to the program's ongoing success.

It was thus not a surprise when **Cork Peterson** (one of the first ConE graduates) noted that the program was nearing its 50th anniversary. He made this observation during a ConE Industry Advisory Council meeting in the fall of 2008. "The most pressing needs of the program" was the general topic of discussion for that meeting. Due to ever increasing program enrollment, a larger state-of-the-art lab for the senior capstone classes emerged as the current most pressing need.

It was quite understandable that this group of ISU ConE alumni would want to celebrate the program's rise to excellence through a formal 50th Anniversary event and, in honor of that significant milestone, develop a new capstone lab capable of meeting this award-winning ConE program's needs.

Under the Industry Advisory Council's direction, a Legacy Committee was formed to spearhead that vision. While the 50th Anniversary date would not arrive until the fall of 2010—two years out—we quickly realized that "time was of the essence" if we were to produce an event worthy of the program's accomplishments, while constructing a world-class ConE lab. Four committees were immediately formed to address this challenge: 1) the History committee under the leadership of **Cork Peterson** with the help of **Brian Wessels** would contact alums and research/recover pertinent historical information that would be needed for a commemorative book; 2) **Mark Guetzko** would head up the Speakers and Program group to begin defining the event itself; 3) as funding would be key to not only the 50th Anniversary celebration, but also the construction of the lab, **Ken Bonus** agreed to spearhead a Sponsorship committee; and 4) **Kent Meyn** took on the task of leading a Mementos group to develop the keepsakes that would help memorialize the celebration.

During early discussions, the concept of a ConE Hall of Fame emerged as a fitting tribute to honor outstanding past, present and future ConE graduates. Obviously, the unveiling of that Hall of Fame would have to become an integral part of the 50th Anniversary Celebration. **Dirk Schafer** and **Dean McCormick** agreed to head up that piece of the planning, which required not only the development of the Hall of Fame program itself, but also designing the award, selecting the Hall's permanent location, gathering information for the inaugural inductees, and even developing the dedication ceremony.

The need for a ConE lab evolved out of an ongoing evaluation of Town Hall as it relates to the overall department needs. **Jim Alleman**, **Ed Jaselskis**, **Larry Cormicle**, **Dean McCormick**, **Nancy Qvale**, and **Margie Tabor** worked diligently to assess department needs, evaluate options, and complete all the required University paperwork. While many physical needs were identified, a better space for the senior capstone class topped the list. Working with **Adam Laug**

and **Ben Barnhart** from the Iowa State Foundation, we identified an emerging fund to honor Tom Jellinger as one of the driving forces in the initial development of the ConE program. A new capstone lab was the perfect fit to honor Tom with those donations. Following months of detailed planning, Larry and Dean were able to develop a final design concept which promises to provide the perfect setting for the capstone courses.

As the ensuing planning evolved, it quickly became evident that we needed expert help in navigating the Iowa State systems that would become an integral part of the Celebration's success. **Jody Larson** with ISU Extension's Conference Planning and Management service came to our rescue. With her expert guidance and incredible patience, we were able to reserve facilities, develop event mailers and web sites, and complete the endless number of details required to make this event a fitting tribute to such an outstanding program. Jody, along with the help of **Julie Kieffer** and **Jennifer Laffey**, proved to be the reassuring force behind all of our planning team committees.

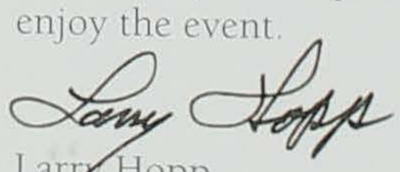
As the details of a memorial book began to materialize, it became evident that additional expertise would be required to finalize that piece of the puzzle. **Jim Alleman** solved that challenge by offering the help of **Minna Khounlo-Sithep** to spearhead document retrieval, assembly, and designing. It was through Minna's energy and encouragement that the ISU's 50th Anniversary / Golden Edition *Erector Set* book became a reality.

The entire ConE Industry Advisory Council maintained its oversight and approval of the overall event planning efforts. As the celebration drew closer and the number of details continued to grow, seven additional committees were added to the planning team—which actively involved every member of the Council:

- The Press Release committee was chaired by **Skip Perley** and was charged with getting the 50th Anniversary message out to regional and national publications and media.
- **John Adam** and **Gene Postma** co-chaired the 50th Anniversary Golf Tournament along with help from **Dave Miller**, **Mike Espeset**, and **Dirk Schafer**.
- Campus and Reiman Gardens tours were managed by **Colleen Ladd** with help from **Skip Perley**, **T.J. Meiners**, and **Larry Hopp**.
- What is any celebration without a tailgate event? Under the leadership of **Dan Biere** and **Steve Jackson** with the help of **Cork Peterson**, **T.J. Meiners**, **Jeff Smith**, and **Josh Miltenberger** the location, menu, and even unique/memorable signage took shape.
- An informal get-together and dinner on Thursday night was organized under the leadership of **Chris Lindhart** and **Mike Gawley**.
- The committee charged with hosting the celebration's banquet was led by **Ken Sorensen**, **Dr. Fred Rahbar**, **Paul Francois**, **Mark Guetzko**, **Dean McCormick**, and **Mark McDermott**.
- And taking care of all the details involved with event registration was overseen by **Beth Duyvejonck** and **Kent Meyn** with help from **Brian Wessels** and **Josh Miltenberger**.

Special thanks to **Ed Jaselskis** for his leadership, support, encouragement, and never-failing willingness to do whatever was needed along the way to help make this celebration a rousing success.

Your entire ConE Industry Advisory Council is extremely proud of what the ISU Construction Engineering program has become. We are passionate about doing everything possible to help insure the program's ongoing success. We trust this 50th Anniversary Celebration will serve as an effective tool to help accomplish that vision. We hope you enjoy the event.



Larry Hopp
Construction Engineering Advisory Council Chair

ed the
g with
and Dirk

re
om Skip

ate event?
Steve
n, T.J.
berger
emorable

e
e

e
orensen,
k
k

ved
Beth
o from
.

ership,

ng the
g success.

cil is
tion
passionate
sure
his 50th
ffective
ope you

cil Chair

IOWA DOT LIBRARY
3 5432 00207 0559

50th

1960 - 2010

CONSTRUCTION ENGINEERING

IOWA STATE UNIVERSITY

OF SCIENCE AND TECHNOLOGY